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## NOAA Technical Memorandum NMFS



**JANUARY 1988**

### **ICHTHYOPLANKTON AND STATION DATA FOR CALIFORNIA COOPERATIVE OCEANIC FISHERIES INVESTIGATIONS SURVEY CRUISES IN 1962**

Barbara Y. Sumida  
Richard L. Charter  
H. Geoffrey Moser  
Deborah L. Snow

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1962

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**NOAA-TM-NMFS-SWFC-93**

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## ABSTRACT

This report provides ichthyoplankton and associated station and tow data from California Cooperative Oceanic Fisheries Investigations (CalCOFI) cruises conducted off California and Baja California in 1962. It is the twelfth report in a series that presents these data for all biological-oceanographic CalCOFI surveys from 1951 to the present. A total of 918 stations was occupied during 4 quarterly multivessel cruises over a survey area which extended from Pt. Reyes, California to Cape San Lazaro, Mexico and seaward to several hundred miles. The data are listed in a series of 5 tables; the background, methodology, and information necessary for interpretation and quantitative analysis of the data are presented in an accompanying text. All pertinent station and tow data, including volumes of water strained and standard haul factors, are listed in the first table. Another key table lists, by station and month, standardized counts of each of the 141 larval fish categories identified from survey samples. This and previous and subsequent reports make the CalCOFI ichthyoplankton and station data available to all investigators and serve as guides to the newly developed computer data base.

## INTRODUCTION

This report, the twelfth of a series, provides ichthyoplankton and associated station and tow data from California Cooperative Oceanic Fisheries Investigations (CalCOFI) joint biological-oceanographic survey cruises conducted in 1962. This program was initiated in 1949, under the sponsorship of the Marine Research Committee of the State of California, to study the population fluctuations of the Pacific sardine (*Sardinops sagax*) and the environmental factors that may play a role in such fluctuations. CalCOFI, known as the California Cooperative Sardine Research Program from 1949 to 1953, was made up of representatives of the South Pacific Fisheries Investigations (SPFI) of the U.S. Fish and Wildlife Service [now the La Jolla Laboratory, National Marine Fisheries Service (NMFS)], the Scripps Institution of Oceanography (SIO), the California Department of Fish and Game (CDFG), the California Academy of Sciences (CAS) and the Hopkins Marine Station of Stanford University. The first three of these agencies supplied ships and personnel to conduct the sea surveys. NMFS processed the plankton samples and analyzed the ichthyoplankton from them. SIO processed and analyzed the hydrographic samples and measurements and also analyzed invertebrate groups from the plankton samples.

The boundaries, station placement, and sampling frequency for the CalCOFI survey area were based on the results of joint biological and oceanographic cruises conducted by NMFS and SIO during 1939-41. Those cruises were designed to collect sardine eggs and larvae and associated hydrographic data over the entire areal and seasonal spawning range of the species. On these survey cruises, plankton tows were made to 70 m, a depth which

encompassed the vertical distribution of sardine eggs and larvae. Wide-ranging joint biological and oceanographic survey cruises were resumed in 1949 with sardine as the focus; however, an increasing interest in other biological components resulted in the deepening of standard tows to 140 m in 1951. This marked the beginning of truly quantitative ichthyoplankton sampling on CalCOFI surveys.

Data resulting from CalCOFI surveys in 1962 have been published in a number of forms. Hydrographic data (Univ. of Calif., SIO, 1962, 1963) and zooplankton volumes (Smith, 1971) were presented in standard formats. Distributional maps of larvae of 5 taxa taken on CalCOFI surveys during 1962 are presented in the CalCOFI Atlas series: northern anchovy (*Engraulis mordax*), Kramer and Ahlstrom, 1968; jack mackerel (*Trachurus symmetricus*) and Pacific hake (*Merluccius productus*), Ahlstrom, 1969; Pacific sardine (*Sardinops sagax*), Kramer, 1970; rockfish (*Sebastes* spp.), Ahlstrom et al., 1978. In the CalCOFI Atlas series, Cruise 6203 is labeled 6204 on distributional charts. Distribution and abundance data for northern anchovy and Pacific sardine larvae from 1951 to 1964 were summarized by Ahlstrom (1966).

A computer data base for eggs and larvae of sardine and anchovy, for larvae of hake, jack mackerel and Pacific mackerel (*Scomber japonicus*), and for eggs of Pacific saury (*Cololabis saira*) was established in 1969. The development of a data base for other fish larvae is a complex undertaking because competency of identification has evolved steadily over the past 38 years. We began the task of producing a CalCOFI ichthyoplankton data base and associated data report series in 1983. All available original records for 1962 were subjected to an extensive verification and editing process to produce this report. This with previous (Ambrose et al., 1987a,b,c; Sandknop et al., 1987a,b; 1988; Stevens et al., 1987a,b,c; Sumida et al., 1987a,b) and subsequent reports make the CalCOFI ichthyoplankton and station data available to all investigators and serve as guides to the computer data base. The data base will be modified when additional errors are discovered and when composite taxa from the earlier years are reidentified. These reports are the fundamental reference documents against which subsequent changes in the data base can be compared.

## SAMPLING AREA AND PATTERN

In 1962, CalCOFI survey cruises were conducted at quarterly intervals during January-February, March-May, July-August, and October-November. In the hydrographic data reports for 1962 (Univ. of Calif., SIO, 1962, 1963) both months are used to designate each cruise (6201-02, 6203-04, 6207-08, 6210-11); however, only the first month of occupancy is used to identify cruises in the ichthyoplankton data base and reports. A total of 918 stations included in this data base was occupied on 4 cruises, with an average of 230 stations per cruise (range 189-

247). Coverage of the survey station pattern varied among cruises and the entire survey area was not covered on any single cruise (Figures 1-5, Table 1). Stations off northern California (lines 40-57) were not occupied in 1962. Coverage off central California (lines 60-77) was a disjunct pattern extending offshore to station 200 on lines 60, 63 (on Cruise 6210 only) and 70 in each cruise except 6207. The area between Pt. Conception and Cape San Lazaro (lines 80-140) was surveyed on all cruises with the exception of Cruise 6207 which extended south only to line 130. The seaward-most station occupied on these lines was station 200 on lines 80, 83 (on Cruise 6210 only) and 90, a distance approximately 600-700 miles offshore<sup>1</sup>. Typically, coverage extended to station 90 (ca. 160-260 miles offshore) or 120 (270-360 miles offshore) on those lines which did not go offshore to station 200 during 1962.

Four vessels were employed on these cruises: the *Black Douglas* of NMFS; the *Alexander Agassiz*, *Horizon*, and *Paolina T* of SIO. Two vessels participated on each cruise. The *Black Douglas* was used on all four cruises, the *Horizon* on two cruises, and the *Paolina T* and *Alexander Agassiz* on one cruise each (Univ. of Calif., SIO, 1962, 1963).

#### SAMPLING GEAR AND METHODS

The standard CalCOFI net used from 1949 to 1969 had a 1-m diameter mouth opening (0.785 m<sup>2</sup> area) and an overall length of about 5 m. The net was constructed of 30xxx gauze, a heavy duty grade of silk bolting cloth, with a mesh size of 0.55 mm after shrinkage. The last 40 cm of the cone and the cod end were constructed of 56xxx grit gauze which had a mesh size of 0.25 mm after shrinkage. The net ring was fastened to a short 3-lead bridle connected to several meters of line which attached to the towing cable by a clamp. A current meter was suspended in the center of the net mouth to measure volume of water filtered (see Kramer et al., 1972, for further details).

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<sup>1</sup>CalCOFI lines (Figure 6) are arranged perpendicular to the coastline and extend from the Canadian border (line 10) to below Cape San Lucas, Baja California (line 157). Stations were established on the basis of a perpendicular to line 80 (off Pt. Conception) at a point designated as station 60. Stations were plotted seaward and shoreward from station 60 on each line. Cardinal CalCOFI lines (those ending in "0") are 120 miles apart and usually bracket two ordinal lines (ending in "3" or "7"), so that lines are 40 miles apart over most of the pattern. Cardinal stations are 40 miles apart and typically these are separated by a station number ending in "5" so that stations are 20 miles apart out to station 90 on most lines. Stations are placed at closer intervals near the coast and islands to accommodate these features (see Kramer et al., 1972 for further details).



The standard tow from 1951 through 1968 was an oblique haul to 140 m depth (to 15 m of the bottom in shallow areas) designed to filter a constant amount of water per depth interval (ca.  $3\text{m}^3/\text{m}$  of depth) over the vertical range of most ichthyoplankters. Hauls were made at a ship speed of 1.5-2.0 knots and initiated by clamping the net line to the towing cable with the 45 kg terminal weight about 10-15 m below the surface. The net was lowered to 140 m depth by paying out 200 m of wire over a 4 minute period (35 m of depth/min.). After fishing at depth for 30 seconds, the net was retrieved at 20 m/min. (14 m depth/min.). The angle of stray of the towing cable was recorded every 30 seconds and maintained at  $45^\circ$  ( $\pm 3^\circ$ ) by adjusting the ship speed and course. After reaching the surface, the net was washed down and the samples preserved in 5% formalin buffered with sodium borate. Flowmeter readings were made at the beginning and end of each tow. Detailed descriptions of gear and methods are given by Ahlstrom (1953), Kramer et al. (1972), and Smith and Richardson (1977).

### LABORATORY PROCEDURES

Laboratory processing began with the determination of a displacement volume for each sample (methods described in Staff, SPFI, 1953 and Kramer et al., 1972). Zooplankton volumes (including ichthyoplankton) of samples collected in 1962 are presented graphically in Smith (1971).

Sorting involved the removal of ichthyoplankton from the sample and identification and separation of: eggs and larvae of Pacific sardine and northern anchovy; larvae of Pacific hake; and eggs of Pacific saury. Usually, each sample was sorted completely; however, some of the samples were fractioned into aliquots using a Folsom plankton splitter (McEwen et al., 1954) prior to sorting. Several criteria<sup>2</sup> were used to determine whether a sample was fractioned: typically samples containing an abundance of thaliacians and coelenterates and exceeding 150 ml in total plankton volume were fractioned (to 50%, 25%, 12.5%) to approximate a reduced volume of 50 ml for sorting; samples with an excessive quantity of fish eggs and/or larvae were occasionally fractioned to expedite the sorting process in order to meet scheduled deadlines. If the identified fraction of an aliquot yielded rare or interesting species of fish larvae, the remaining fraction was frequently sorted and identified with the intent of finding additional specimens. Aliquot percentages for fractioned samples from 1962 are listed in Table 1 under the "Percent Sorted" column; 3.4% of the samples collected in 1962 were fractioned.

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<sup>2</sup>Personal communication, James R. Thrailkill, National Marine Fisheries Service, Southwest Fisheries Center, La Jolla, CA.

A "standard haul factor" (SHF) was calculated for each tow to make them comparable and allow estimations of areal abundance. This factor adjusts the number of eggs or larvae in a haul to the number in 10 m<sup>3</sup> of water strained per meter of depth fished. If the vertical distribution of the species has been encompassed, then the adjusted value is equivalent to the number under 10 m<sup>2</sup> of sea surface. The SHF is calculated for each haul by the formula:

$$SHF = \frac{10 D}{V}$$

where D = depth of haul = cosine of the average angle of stray of the towing cable multiplied by cable length (m)

V = total volume of water (m<sup>3</sup>) strained during the haul

$$V = R \cdot a \cdot p$$

where R = total number of revolutions of the current meter during the haul

a = area (m<sup>2</sup>) of the mouth of the net

p = length of column of water (m) needed to produce one revolution of the current meter.

Tow depth, volume of water strained, and standard haul factor are listed in Table 1 for each tow taken during 1962. Detailed descriptions of factors involved in calculating these values are presented in Ahlstrom (1948), Kramer et al. (1972), and Smith and Richardson (1977).

## IDENTIFICATION

Identification of ichthyoplankton species beyond those separated during the sorting process was carried out by a separate group of specialists. Ontogenetic stages of fishes are inherently difficult to identify and this is further complicated by the large number and diversity of species which contribute to the ichthyoplankton of the California Current region. Most identifications were accomplished by establishing ontogenetic series on the basis of morphology, meristics, and pigmentation and then identifying these series by relating them to known metamorphic, juvenile, or adult stages with overlapping features (Powles and Markle, 1984). A total of 139 taxa was identified for 1962, with 81 taken to species, 28 to genus, 26 to family, and 4 to order or suborder. Beginning in 1961, larvae in the families Paralepididae and Labridae were identified to genus or species.

The task of producing a reliable and equitable ichthyoplankton data base required extensive procedures to verify, correct, and edit the original identifications. The primary data source was the original identification sheets (see Kramer et al., 1972, for examples); however, a critical resource used in all phases of this process was the CalCOFI ichthyoplankton collection in which the samples are archived. Throughout the course of CalCOFI ichthyoplankton studies, samples have been identified to the lowest taxon possible. In reviewing these identifications for the data base, our approach has been conservative and we have preserved those identifications and counts which we could confirm, while correcting as many of the errors as possible. After computer entry, taxonomic errors and inconsistencies in the data base were corrected and the most obvious identification errors were corrected. Our current knowledge of ichthyoplankton techniques coupled with a precise understanding of the development of identification competency in the program over the years allowed us to critically judge the historical records. Identifications were changed to different taxa, lumped to a higher taxonomic category, or given a more precise taxonomic name. In some cases, identifications of a taxon were inconsistent among cruises in a year. These records were made equitable by lumping to the higher taxonomic category to avoid biases that could result in quantitative misinterpretations.

Next, statistical, seasonal, and geographic outliers were identified, employing a series of graphic summaries and listings. Examination of geographic outliers proved to be especially effective because of our accumulated knowledge of species distributions. In the course of examining samples for these outliers, other identification errors were discovered and eventually all taxa were scrutinized to some extent. Lastly, certain taxa were reexamined in all samples for the entire CalCOFI time series. These taxa were selected because of their commercial, ecological, phylogenetic, or zoogeographic importance or because taxonomic confusion was at the ordinal level. The following is a list of the taxa for 1962 which received special attention, with explanations and caveats intended to aid in quantitative interpretations:

*Anguilliformes* - tentative and sporadic identifications to family or lower taxon lumped to order.

*Sardinops sagax* - all specimens south of line 120 checked for misidentification of *Opisthonema* spp.

*Engraulis mordax* - some nearshore samples of small *E. mordax* may contain other anchovy genera which could not be differentiated.

*Nansenia* spp. - all specimens checked and identified as *N. candida* or *N. crassa*; all specimens of these species near their range boundaries checked.



*Bathylagus* spp. - includes small and/or disintegrated specimens of *Bathylagus* or *Leuroglossus stilbius*.

Stomiiformes - all specimens checked and identified to genus or species; residuals are small, poorly preserved or unavailable specimens.

*Vinciguerrria lucetia* - specimens taken seaward of station 100 checked for misidentification of *V. poweriae*; some *V. poweriae* may remain in *V. lucetia* samples from these stations because small larvae of the two species could not be differentiated; sporadic identification of *V. poweriae* began in 1961.

Sternoptychidae - tentative and sporadic identifications of hatchetfishes to genus were lumped to family.

*Bathophilus* spp. - all specimens checked.

*Eustomias* spp. - specimen checked.

*Photonectes* spp. - all specimens checked.

*Tactostoma macropus* - all specimens checked.

Paralepididae - all specimens examined and identified to species; residuals are small, poorly preserved or unavailable specimens.

Scopelarchidae - tentative and sporadic identifications to genus lumped to family.

*Lampanyctus* spp. - tentative and sporadic identifications to species lumped to genus.

*Lampanyctus regalis* - underrepresented because of inability to differentiate small larvae (<5 mm) from those of other species of the genus; counts may include other species of the genus because of difficulty in identifying larvae of this large and complex genus.

*Lampanyctus ritteri* - comment for *L. regalis* applies to this species.

*Stenobranchius leucopsarus* - all specimens taken seaward of station 100 checked.

*Triphoturus mexicanus* - all specimens taken seaward of station 100 checked for misidentification of *T. nigrescens*.

*Diogenichthys atlanticus* - all specimens at margins of range checked.

*Diogenichthys laternatus* - all specimens at margins of range checked.

*Electrona rissoi* - recognition of this species was inconsistent and others may be included in *Protomyctophum crockeri* or Myctophidae.

*Hygophum* spp. - all specimens reidentified to species; residuals are small, poorly preserved or unavailable specimens.

*Hygophum atratum* - all specimens checked.

*Hygophum reinhardtii* - all specimens checked.

*Protomyctophum crockeri* - some samples on northern lines may contain *P. thompsoni*, which was not identified originally.

*Physiculus* spp. - specimen checked.

Ophidiiformes - this category did not exist originally and ophidiiform larvae were included in *Brosmophycis marginata*, Carapidae, "*Otophidium*", "*Zoarcidae*", and "blenny"; identifications of *B. marginata* and Carapidae proved to be mostly correct and "*Zoarcidae*" to be a yet unidentified ophidiiform species; all "*Otophidium*" and "blenny" were reexamined and the former included *Ophidion scrippsae*, *Chilara taylori* and other ophidiiform taxa (moved to order); "blenny" contained *O. scrippsae*, *C. taylori*, and other ophidiiform taxa.

Trachipteridae - tentative and sporadic identifications to genus were lumped to family.

*Melamphaes* spp. - all identifications ascribed to Melamphaidae were reexamined and assigned to genus (*Melamphaes*, *Poromitra*) or species (*Scopelogadus bispinosus*, *Scopeloberyx robustus*); larvae originally identified as *Melamphaes* spp. were not reexamined and this category may contain other melamphaid genera.

Cottidae - all specimens checked.

Hexagrammidae - specimen checked.

*Oxylebius pictus* - all specimens checked.

*Zaniolepis* spp. - all specimens checked.

*Sebastes* spp. - category may contain other scorpaenid genera, particularly in samples south of line 120.

Labridae - all specimens originally identified to family were reexamined and assigned to genus (*Halichoeres* spp.) or species (*Oxyjulis californica*, *Semicossyphus pulcher*); residuals are of an unidentified southern form.

Pomacentridae - all original identifications ascribed to this family (except *Chromis punctipinnis*) were reexamined; all



were misidentifications, and are now assigned to Gerreidae, Sciaenidae, and Carangidae.

*Chromis punctipinnis* - all specimens south of line 120 checked.

*Howella brodiei* - all specimens checked; originally identified as Apogonidae; in this report we list *H. brodiei* in the family Apogonidae for convenience, recognizing that its systematic affinities are not resolved.

Carangidae - includes one specimen originally misidentified as Pomacentridae; additional specimens may be misidentified or in the unidentified fish larva category.

*Seriola lalandi* - all specimens checked.

Gerreidae - tentative and sporadic identifications to genus were lumped to family.

Haemulidae - tentative and sporadic identifications to genus lumped to family.

*Girella nigricans* - specimen checked.

*Medialuna californiensis* - all specimens checked.

*Caulolatilus princeps* - all specimens checked.

Sciaenidae - tentative and sporadic identifications to genus lumped to family.

Scombridae - all larvae identified to this family or constituent taxa (except *Scomber japonicus*) were reexamined and reassigned.

Pleuronectiformes - all specimens of this category (originally called "flatfish") were examined and reidentified.

*Citharichthys* spp. - all larvae identified to species were lumped to the genus except *C. stigmaeus*; category includes larvae of *Etropus* spp.

*Citharichthys stigmaeus* - includes larvae larger than ca. 4.5 mm; smaller larvae are in *Citharichthys* spp.

*Paralichthys* spp. - all specimens of this genus were examined and most were assigned to *P. californicus* or *Xystreurys liolepis*.

*Xystreurys liolepis* - originally misidentified as *Paralichthys californicus*; all specimens reidentified.

*Lepidopsetta bilineata* - specimen checked; originally identified as *Psettichthys melanostictus*.

*Pleuronichthys* spp. - all larvae of this genus and constituent species were examined and assigned to species; residuals are small, poorly preserved or unavailable specimens.

*Psettichthys melanostictus* - all specimens examined.

#### COMPUTER ENTRY AND EDITING

Each taxon on the original identification sheets was given a 3-digit code based on the list of codes in Haight et al. (1979). Taxon codes and counts from these sheets were keypunched by cruise and station, along with pertinent station and tow data and entered into the VAX 11/780 computer at the University of California, San Diego, Computing Center. After entries were completed for an entire year, print-out listings of taxa and counts on each station were compared with the original data sheets to eliminate keypunch errors. Next, data in the file were cross-checked with data on an existing file which contained: station and tow data; numbers of eggs of sardine, anchovy, and saury; numbers of larvae of sardine, anchovy, hake, jack mackerel, and Pacific mackerel; total number of fish eggs; and total number of fish larvae.

Discrepancies in ichthyoplankton data in these two files were corrected by inspecting original records from the sorting laboratory, the original ichthyoplankton identification sheets, and the samples themselves. Station and tow data discrepancies between the two files were corrected by reviewing ships' logs and deck tow sheets, original records from the sorting laboratory, cruise announcements, publications, header information on the ichthyoplankton identification sheets, and station plots generated for each cruise. Eventually all station and tow data were checked by comparing these sources.

The corrected ichthyoplankton data base was then examined statistically and outliers were found and checked as above. Distributional plots were then prepared for each taxon and these were checked by reviewing the data sources mentioned above and by examining archived specimens. A listing of each taxon by station (Table 4) was produced, which became the primary document for subsequent checks. Misidentifications found in geographic outlier checks and other misidentifications and data problems discovered in the course of examining archived samples resulted in several iterations of Table 4. Finally, totals in Table 4 were checked against annual summaries of incidence and abundance (Tables 2 and 3). Ecological analyses of the data were conducted concurrently with editing procedures and provided cross-checks that allowed correction of errors.

## SPECIES SUMMARY

Larvae of northern anchovy (*Engraulis mordax*) represented 60% of all fish larvae taken on CalCOFI cruises during 1962 and numbered eight times as many as the gonostomatid *Vinciguerria lucetia*, the next most abundant species with 7% of the total larvae (Tables 2, 3). Northern anchovy also ranked first in incidence; *V. lucetia* ranked third. The next most abundant species was Pacific hake, *Merluccius productus*, with 6% of total larvae; it ranked 7th in occurrence. The myctophid *Triphoturus mexicanus* ranked 4th in abundance (4%) and 2nd in occurrence. A deepsea smelt, *Leuroglossus stilbius*, ranked 5th in abundance (4%) and 8th in incidence. Larvae of *Sebastes* spp., a composite of about 70 species, ranked 6th in abundance and 5th in incidence. Larvae of jack mackerel (*Trachurus symmetricus*), sanddabs (*Citharichthys* spp.), the myctophid *Stenobrachius leucopsarus*, and the gonostomatid *Cyclothone* spp. completed the 10 most abundant taxa ranking 7th, 8th, 9th, and 10th, respectively; in incidence, these taxa ranked 11th, 10th, 13th, and 4th, respectively. These 10 top-ranking taxa contributed 90.5% of all larvae taken during 1962. The remaining 9.5% was represented by 129 taxa plus the unidentified and disintegrated categories. Of the 10 taxa, 5 were midwater species, 3 were coastal demersal species or generic groupings, and 2 were coastal pelagic species.

## EXPLANATION OF TABLES

Table 1 - This table lists by cruise the pertinent station and tow data for 1962, the volume of water filtered and standard haul factor for each tow, the percent of sample sorted, and the total numbers of fish eggs and larvae. CalCOFI cruises are designated by four digits; the first two indicate the year and the second two the month. Within each cruise the data are listed in order of increasing line and station number (southerly and seaward directions); the order of station occupancy is shown on the station charts (Figures 2-5). Stations are designated by two groups of digits; the first set indicates the line and decimal fraction and the second set indicates the station on the line. Time is listed as Pacific Standard Time at the start of each tow in 24-hour designation. Methods for determining tow depth, volume of water strained, standard haul factor, and percent sorted were described in the methods section. The values for total fish eggs and larvae represent raw counts (unadjusted for percent sorted or standard haul factor). Ship codes are as follows: AX, *Alexander Agassiz*; BD, *Black Douglas*; HO, *Horizon*; PT, *Paolina T.*

Table 2 - This table lists pooled occurrences of all larval fish taxa taken during 1962 in ranked order.

Table 3 - This table lists pooled counts of all larval fish taxa taken during 1962 in ranked order. Numbers are adjusted for percent sorted and standard haul factors.

Table 4 - This table gives numbers of fish larvae for each taxon, listed by station and calendar month in which the tow was taken. Counts are adjusted for percent of sample sorted and standard haul factor. The orders are listed in "phylogenetic" sequence modified from Nelson (1984). Subtaxa within each order are listed alphabetically. Page numbers for each taxon are given in the index at the end of the report.

Table 5 - This table is a summary of pooled occurrences of all larval fish taxa taken on CalCOFI surveys from 1961 to 1969. Taxa are listed in the same order as in Table 4.

#### ACKNOWLEDGMENTS

Lois Hunter and David Kramer originally identified larvae from CalCOFI cruises of 1962. Ronald Whyte coded each larval fish taxon or type and Rita Ford entered them into the computer. Cindy Meyer, Larry Zins, and James Ryan provided programming assistance. Dorothy Roll designed the CalCOFI data acquisition system and provided data processing support. Ken Raymond, Roy Allen, and Henry Orr helped with graphics and production of the report. Lorraine Prescott and Diane Forsythe prepared the manuscript for printing. Paul Smith determined statistical outliers, provided assistance during geographical outlier checks and offered helpful suggestions throughout the project. Izadore Barrett, Director of the Southwest Fisheries Center and Reuben Lasker, Chief, Coastal Fisheries Resources Division, SWFC, provided the support critical to the completion of the project. James Thrailkill planned CalCOFI surveys and supervised cruises, data handling, and plankton sorting from 1949 to 1986 and is largely responsible for the high quality of these operations. Without the vision and direction of Elbert Ahlstrom and Elton Sette and the dedicated efforts of the many people who collected, processed, and analyzed the samples, this data base would not exist.



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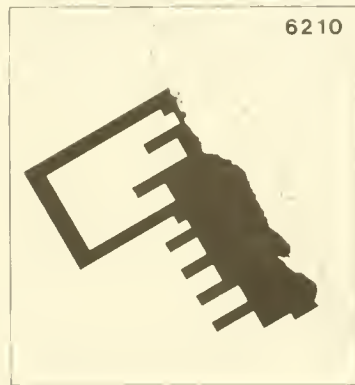
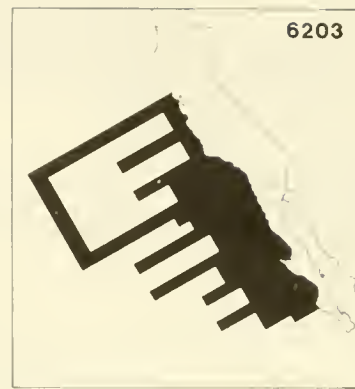
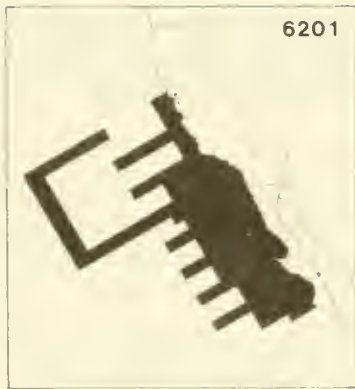


Figure 1. Composite arrangement of diagrammatic charts showing areas sampled on each CalCOFI cruise during 1962.



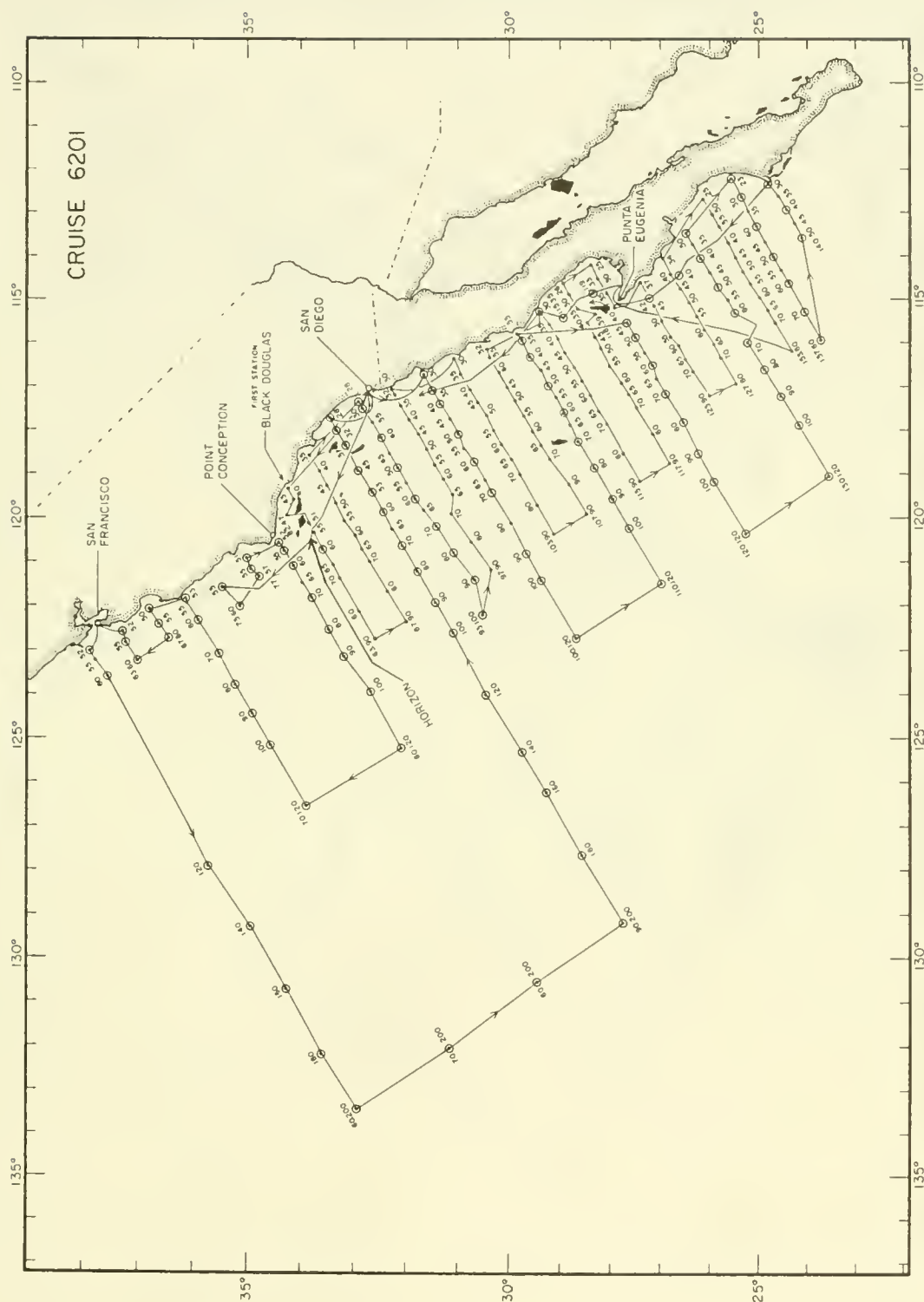


Figure 2. Station pattern for CalCOFI Cruise 6201 showing tracks for each vessel. Stations with plankton tows are indicated by a dot; circles designate hydrographic stations. Figures 2-5 modified from charts in Univ. of Calif., SIO (1962, 1963) to include only those stations listed in Table 1 of this report.



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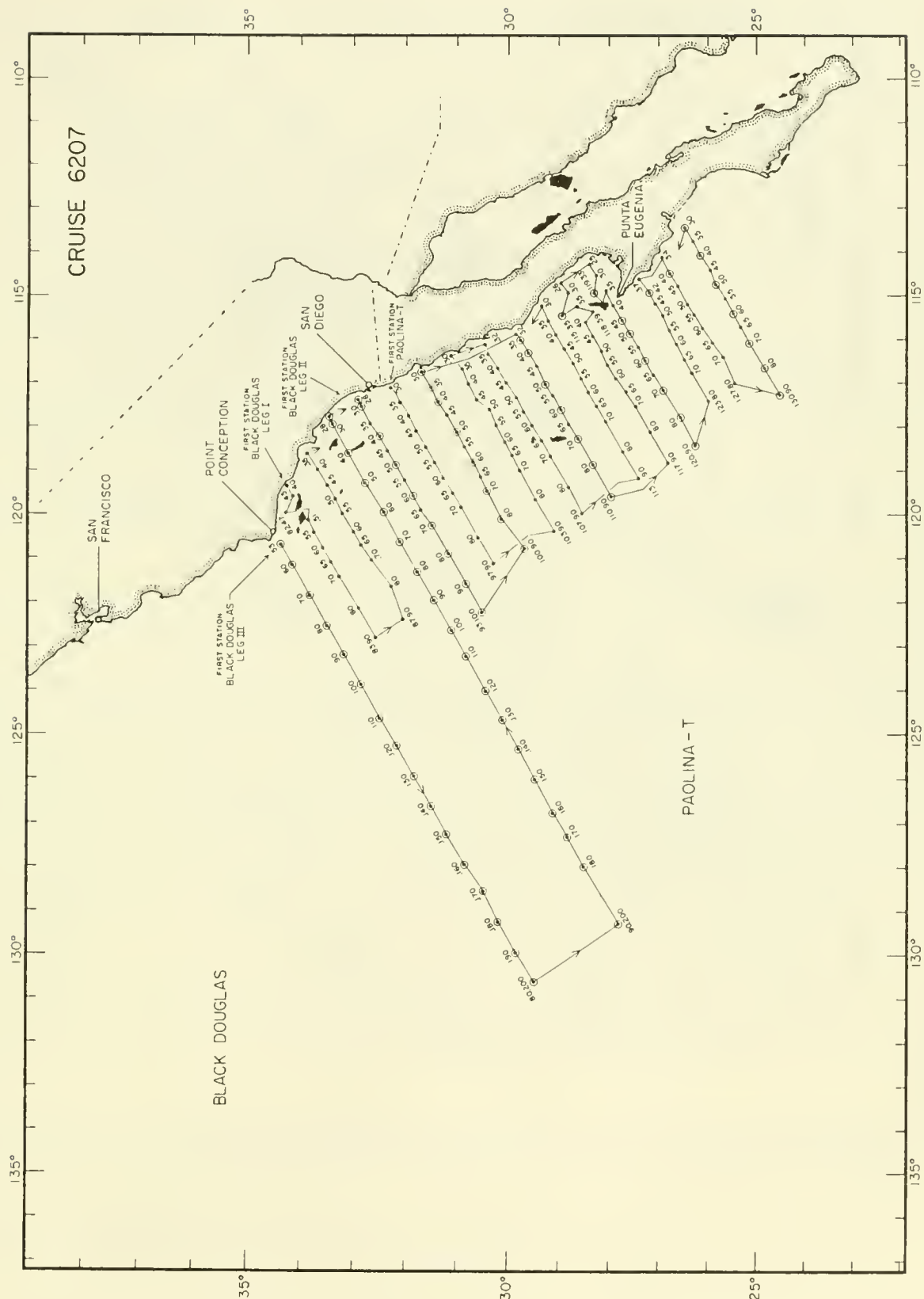


Figure 4. Station pattern for CalCOFI Cruise 6207. Symbols as in Figure 2.

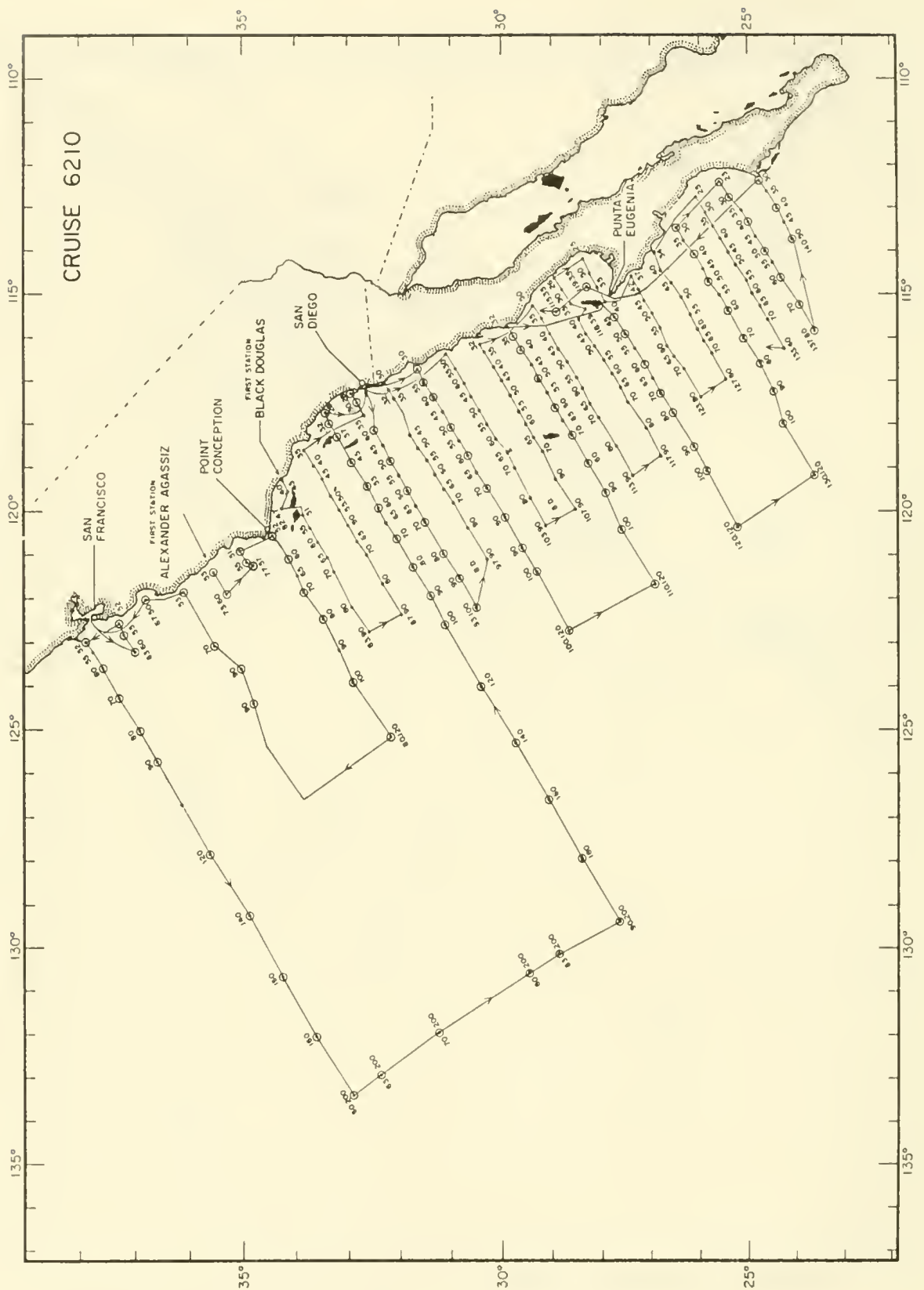


Figure 5. Station pattern for CalCOFI Cruise 6210. Symbols as in Figure 2.

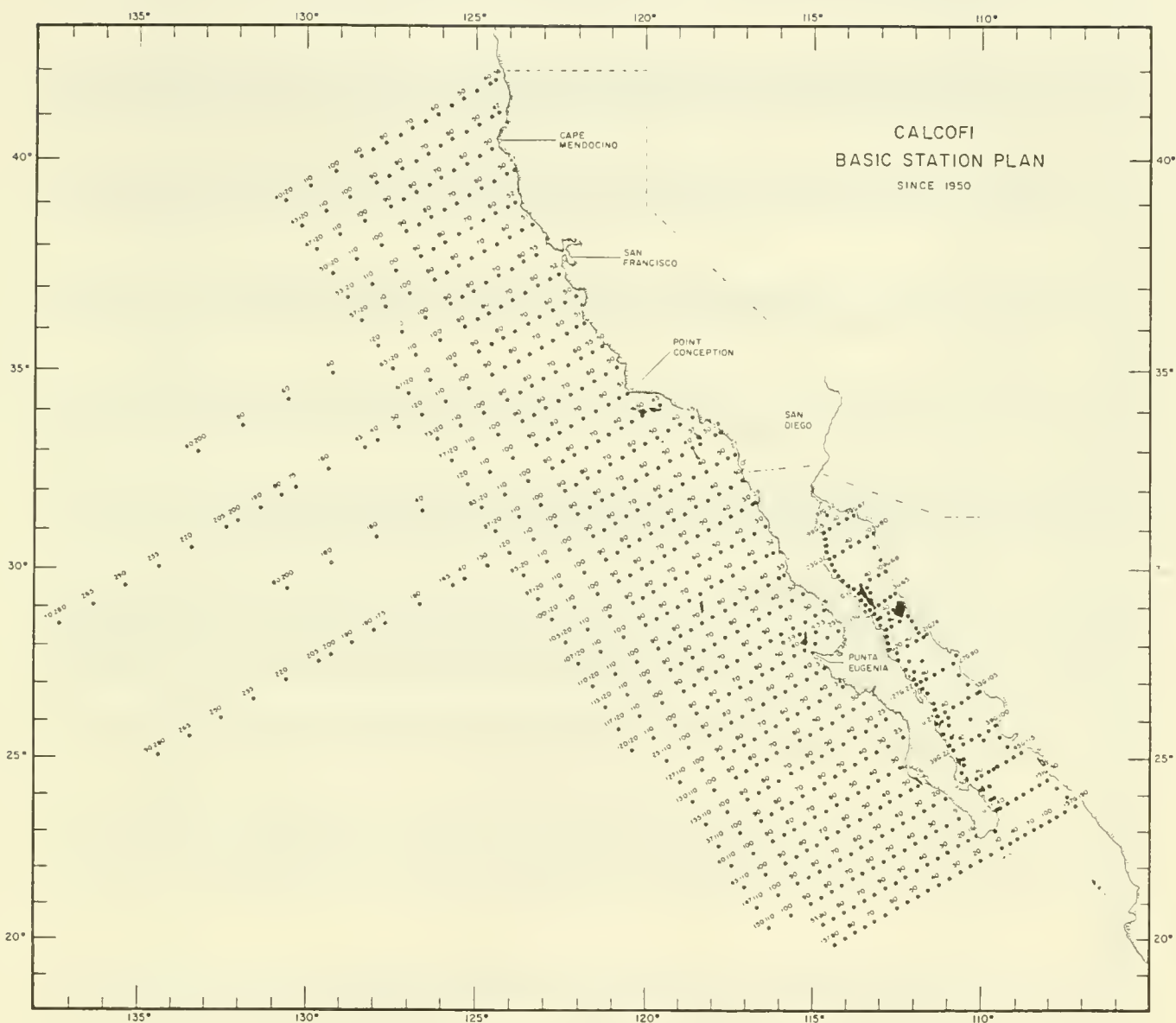


Figure 6. The basic station plan for CalCOFI cruises from 1950 to the present.

TABLE 1. Station and plankton tow data for CalCOFI cruises in 1962. Counts for fish eggs and larvae are not adjusted for standard haul factor or percent of sample sorted.

CalCOFI Cruise 6201

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
60.0	52.0	37 53.3	123 02.0	HO	62 01 20	1603	57	289	1.97	100.0	99	169
60.0	55.0	37 47.5	123 16.0	HO	62 01 20	1751	139	476	2.92	100.0	441	106
60.0	60.0	37 34.5	123 38.0	HO	62 01 20	2211	117	652	1.79	100.0	24	51
60.0	120.0	35 42.0	127 57.0	HO	62 01 22	2241	111	634	1.75	100.0	1	0
60.0	140.0	34 57.9	129 17.3	HO	62 01 23	0726	114	577	1.98	100.0	0	4
60.0	160.0	34 17.0	130 44.5	HO	62 01 23	1646	147	467	3.15	100.0	3	14
60.0	180.0	33 34.6	132 11.0	HO	62 01 24	0116	138	520	2.65	100.0	10	14
60.0	200.0	32 56.5	133 28.0	HO	62 01 24	0946	147	486	3.02	100.0	10	31
63.0	52.0	37 18.7	122 37.0	HO	62 01 18	1453	61	284	2.14	100.0	68	426
63.0	55.0	37 13.8	122 50.7	HO	62 01 18	1306	137	487	2.81	100.0	35	37
63.0	60.0	37 01.8	123 15.0	HO	62 01 18	0916	131	507	2.59	100.0	15	207
67.0	50.0	36 49.4	122 05.1	HO	62 01 17	2148	57	310	1.84	100.0	59	109
67.0	55.0	36 38.7	122 27.1	HO	62 01 18	0046	142	468	3.03	100.0	35	48
67.0	60.0	36 29.3	122 47.6	HO	62 01 18	0346	146	456	3.20	100.0	5	40
70.0	53.0	36 07.6	121 54.5	HO	62 01 17	1631	137	525	2.61	100.0	36	74
70.0	55.0	36 04.8	122 00.0	HO	62 01 17	1321	144	520	2.76	100.0	36	67
70.0	60.0	35 54.3	122 21.0	HO	62 01 17	1051	137	553	2.48	100.0	10	12
70.0	70.0	35 32.5	123 06.0	HO	62 01 17	0451	146	483	3.01	100.0	5	8
70.0	80.0	35 13.0	123 48.0	HO	62 01 17	0001	142	525	2.71	100.0	11	5
70.0	90.0	34 54.7	124 26.8	HO	62 01 16	1916	146	498	2.94	100.0	19	8
70.0	100.0	34 35.0	125 09.5	HO	62 01 16	1336	138	542	2.55	100.0	12	4
70.0	120.0	33 53.5	126 33.0	HO	62 01 16	0441	156	462	3.36	100.0	11	11
70.0	200.0	31 08.5	132 02.5	HO	62 01 25	0321	140	539	2.60	100.0	23	12
73.0	53.0	35 29.2	121 33.5	HO	62 01 13	0216	134	616	2.18	100.0	85	263
73.0	60.0	35 08.7	122 03.4	HO	62 01 13	0651	144	502	2.87	100.0	13	60
77.0	51.0	35 01.2	120 58.5	HO	62 01 13	2056	130	639	2.04	100.0	307	80
77.0	55.0	34 56.4	121 12.8	HO	62 01 13	1801	97	688	1.41	100.0	7	47
77.0	57.0	34 48.2	121 21.5	HO	62 01 13	1341	133	580	2.29	100.0	18	166
80.0	52.0	34 25.0	120 35.7	HO	62 01 14	0251	137	501	2.73	100.0	284	139
80.0	55.0	34 19.2	120 48.2	HO	62 01 14	0516	134	506	2.66	100.0	195	160
80.0	60.0	34 09.0	121 09.2	HO	62 01 14	0941	141	487	2.89	100.0	15	51
80.0	65.0	34 00.0	121 30.5	HO	62 01 14	1141	130	520	2.50	100.0	26	29
80.0	70.0	33 48.5	121 51.0	HO	62 01 14	1541	144	502	2.87	100.0	7	5
80.0	80.0	33 29.5	122 32.0	HO	62 01 14	2126	104	581	1.79	100.0	11	10
80.0	90.0	33 11.0	123 11.0	HO	62 01 15	0216	145	486	2.98	100.0	2	4
80.0	100.0	32 40.5	123 58.0	HO	62 01 15	0726	143	482	2.97	100.0	4	3
80.0	120.0	32 08.0	125 55.1	HO	62 01 15	1556	145	520	2.78	100.0	0	1
80.0	200.0	29 25.0	130 36.0	HO	62 01 25	1931	142	502	2.84	100.0	69	17
82.0	47.0	34 15.0	119 58.0	BD	62 02 01	1011	139	420	3.31	100.0	61	538
83.0	40.0	34 14.0	119 22.0	BD	62 02 01	0630	9	156	0.56	100.0	1	45
83.0	43.0	34 08.0	119 34.0	BD	62 02 01	0741	128	476	2.69	100.0	18	501
83.0	51.0	33 52.0	120 08.5	BD	62 02 01	1345	100	406	2.47	100.0	121	1586
83.0	55.0	33 44.0	120 24.5	BD	62 02 01	1546	137	513	2.66	100.0	64	871



TABLE 1. (cont.)

CalCOFI Cruise 6201												
Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
83.0	60.0	33 34.0	120 45.0	BD	62 02 01	1806	136	470	2.90	100.0	55	230
83.0	65.0	33 24.0	121 06.0	BD	62 02 01	2106	133	518	2.56	100.0	60	218
83.0	70.0	33 14.5	121 26.0	BD	62 02 01	2321	136	506	2.69	100.0	147	26336
83.0	80.0	32 54.0	122 08.0	BD	62 02 02	0351	135	494	2.72	100.0	28	298
83.0	90.0	32 34.5	122 47.5	BD	62 02 02	0756	133	484	2.74	100.0	6	59
87.0	35.0	33 50.0	118 37.5	BD	62 02 03	1326	132	482	2.75	100.0	55	147
87.0	40.0	33 40.0	118 58.0	BD	62 02 03	1056	138	495	2.78	100.0	124	830
87.0	45.0	33 30.0	119 19.0	BD	62 02 03	0831	141	453	3.11	100.0	124	1218
87.0	50.0	33 20.0	119 39.5	BD	62 02 03	0608	56	264	2.11	100.0	66	220
87.0	55.0	33 09.5	120 04.5	BD	62 02 03	0321	139	487	2.85	50.0	351	2159
87.0	60.0	32 59.1	120 24.5	BD	62 02 03	0151	140	466	3.01	50.0	910	2346
87.0	65.0	32 49.8	120 43.0	BD	62 02 02	2226	125	541	2.31	25.0	273	2085
87.0	70.0	32 39.5	121 02.0	BD	62 02 02	2011	134	512	2.62	100.0	7	12
87.0	80.0	32 19.5	121 43.0	BD	62 02 02	1601	133	513	2.59	100.0	0	5
87.0	90.0	32 00.0	122 21.0	BD	62 02 02	1211	140	475	2.94	100.0	1	9
90.0	28.0	33 28.4	117 46.7	HO	62 01 30	0646	144	447	3.22	100.0	118	2188
90.0	32.0	33 20.8	118 03.3	HO	62 01 30	0401	141	493	2.87	50.0	493	1567
90.0	37.0	33 10.5	118 23.5	HO	62 01 30	0121	133	528	2.52	100.0	287	4754
90.0	45.0	32 55.6	118 57.0	HO	62 01 29	1931	140	505	2.77	100.0	142	830
90.0	53.0	32 39.4	119 27.8	HO	62 01 29	1636	126	564	2.23	100.0	21	742
90.0	60.0	32 26.3	119 53.5	HO	62 01 29	1201	137	541	2.54	100.0	3	915
90.0	65.0	32 14.8	120 18.0	HO	62 01 29	0841	131	565	2.32	100.0	4	113
90.0	70.0	32 04.5	120 39.5	HO	62 01 29	0606	145	495	2.92	100.0	11	44
90.0	80.0	31 45.5	121 16.2	HO	62 01 29	0111	137	505	2.70	100.0	22	3
90.0	90.0	31 25.1	121 57.5	HO	62 01 28	1811	144	513	2.81	100.0	5	24
90.0	100.0	31 04.9	122 39.0	HO	62 01 28	1011	440	161	3.67	100.0	3	21
90.0	120.0	30 27.0	124 01.5	HO	62 01 28	0101	141	537	2.63	100.0	26	18
90.0	140.0	29 44.0	125 19.5	HO	62 01 27	1606	143	495	2.88	100.0	9	5
90.0	160.0	29 15.8	126 15.0	HO	62 01 27	0446	146	495	2.95	100.0	47	6
90.0	180.0	28 31.5	127 39.5	HO	62 01 26	1946	145	507	2.86	100.0	63	15
90.0	200.0	27 43.0	129 11.0	HO	62 01 26	1006	133	567	2.35	100.0	2	10
93.0	28.0	32 54.7	117 21.8	BD	62 02 03	2201	141	487	2.89	100.0	224	1177
93.0	30.0	32 50.5	117 31.0	BD	62 02 03	1141	134	517	2.59	100.0	236	1188
93.0	35.0	32 39.4	117 51.5	BD	62 02 04	0241	138	491	2.82	100.0	187	1029
93.0	40.0	32 30.0	118 11.5	BD	62 02 04	0456	139	500	2.79	100.0	355	1046
93.0	45.0	32 20.0	118 32.0	BD	62 02 04	0846	141	474	2.98	100.0	321	697
93.0	50.0	32 10.0	118 52.5	BD	62 02 04	1111	140	466	3.01	100.0	103	2383
93.0	55.0	32 00.0	119 13.5	BD	62 02 04	1426	138	455	3.02	100.0	43	1056
93.0	60.0	31 50.0	119 34.0	BD	62 02 04	1646	138	469	2.95	100.0	327	438
93.0	65.0	31 38.5	119 53.0	BD	62 02 04	2021	140	461	3.03	100.0	6	34
93.0	70.0	31 26.5	120 12.0	BD	62 02 04	2251	141	480	2.93	100.0	32	105
93.0	80.0	31 03.5	120 47.0	BD	62 02 05	0406	137	499	2.74	100.0	16	38
93.0	90.0	30 40.5	121 26.0	BD	62 02 05	0926	138	514	2.68	100.0	16	69
93.0	100.0	30 30.5	122 14.0	BD	62 02 05	1536	137	478	2.87	100.0	8	30
97.0	30.0	32 16.0	117 07.0	BD	62 02 07	0518	45	256	1.77	100.0	375	1045

TABLE 1. (cont.)

CalCOFI Cruise 6201												
Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
97.0	32.0	32 12.0	117 15.2	BD	62 02 07	0401	137	485	2.83	100.0	589	254
97.0	35.0	32 06.0	117 30.0	BD	62 02 07	0201	140	496	2.82	100.0	110	1667
97.0	40.0	31 56.5	117 50.5	BD	62 02 06	2336	141	480	2.93	100.0	90	578
97.0	45.0	31 46.0	118 08.5	BD	62 02 06	2056	141	476	2.96	100.0	887	851
97.0	50.0	31 36.0	118 29.0	BD	62 02 06	1811	136	472	2.89	100.0	266	696
97.0	55.0	31 25.5	118 49.5	BD	62 02 06	1531	142	448	3.17	100.0	17	263
97.0	60.0	31 15.5	119 10.0	BD	62 02 06	1401	142	438	3.24	100.0	15	301
97.0	65.0	31 05.0	119 30.5	BD	62 02 06	1031	128	521	2.46	100.0	5	615
97.0	70.0	31 05.5	119 55.0	BD	62 02 06	0731	140	472	2.96	100.0	4	107
97.0	80.0	30 43.0	120 33.5	BD	62 02 06	0241	140	474	2.95	100.0	17	53
97.0	90.0	30 19.5	121 11.5	BD	62 02 05	2201	140	488	2.88	100.0	17	64
100.0	30.0	31 40.5	116 46.8	HO	62 01 31	2008	138	537	2.56	100.0	113	1657
100.0	35.0	31 31.0	117 07.0	HO	62 02 01	2356	126	579	2.17	100.0	147	361
100.0	40.0	31 21.0	117 27.5	HO	62 02 01	0326	141	499	2.82	100.0	88	112
100.0	45.0	31 10.0	117 47.0	HO	62 02 01	0546	145	498	2.91	100.0	27	107
100.0	50.0	31 00.0	118 07.5	HO	62 02 01	0926	132	543	2.43	100.0	133	347
100.0	55.0	30 51.5	118 29.0	HO	62 02 01	1151	144	487	2.95	100.0	19	228
100.0	60.0	30 40.5	118 47.0	HO	62 02 01	1526	136	534	2.56	100.0	1	130
100.0	65.0	30 29.3	119 10.0	HO	62 02 01	1826	143	467	3.07	100.0	18	83
100.0	70.0	30 20.5	119 28.0	HO	62 02 01	2131	136	514	2.64	100.0	9	7
100.0	80.0	29 59.0	120 09.5	HO	62 02 02	0230	129	561	2.30	100.0	16	32
100.0	90.0	29 39.0	120 51.0	HO	62 02 02	0716	146	480	3.04	100.0	15	35
100.0	100.0	29 21.5	121 28.2	HO	62 02 02	1306	139	522	2.67	100.0	15	47
100.0	120.0	28 40.0	122 45.0	HO	62 02 02	2341	139	526	2.63	100.0	29	26
103.0	30.0	31 06.0	116 24.5	BD	62 02 08	2229	38	224	1.68	100.0	723	82
103.0	35.0	30 56.0	116 45.0	BD	62 02 09	0046	137	504	2.72	100.0	224	6708
103.0	40.0	30 44.5	117 07.0	BD	62 02 09	0306	140	470	2.99	100.0	98	451
103.0	45.0	30 36.0	117 26.5	BD	62 02 09	0531	142	459	3.09	100.0	51	131
103.0	50.0	30 26.0	117 44.5	BD	62 02 09	0736	140	466	3.01	100.0	8	133
103.0	55.0	30 18.0	118 03.0	BD	62 02 09	0946	142	447	3.17	100.0	2	186
103.0	60.0	30 07.5	118 23.0	BD	62 02 09	1231	141	483	2.92	100.0	2	114
103.0	65.0	29 56.5	118 44.0	BD	62 02 09	1526	139	487	2.86	100.0	2	116
103.0	70.0	29 46.5	119 04.0	BD	62 02 09	1756	136	458	2.98	100.0	45	193
103.0	80.0	29 26.5	119 44.0	BD	62 02 09	2241	139	466	2.99	100.0	24	517
103.0	90.0	29 07.0	120 23.5	BD	62 02 10	0346	141	422	3.34	100.0	12	146
107.0	32.0	30 25.8	116 11.0	BD	62 02 11	1131	136	498	2.74	100.0	112	586
107.0	35.0	30 21.5	116 22.5	BD	62 02 11	1011	135	514	2.62	100.0	78	125
107.0	40.0	30 11.0	116 42.0	BD	62 02 11	0746	137	469	2.93	100.0	50	194
107.0	45.0	30 01.5	117 02.0	BD	62 02 11	0531	139	502	2.77	100.0	260	63
107.0	50.0	29 51.0	117 21.2	BD	62 02 11	0326	130	498	2.61	100.0	18	156
107.0	55.0	29 41.0	117 42.0	BD	62 02 11	0101	128	527	2.43	100.0	6	110
107.0	60.0	29 32.0	118 01.5	BD	62 02 10	2231	143	468	3.05	100.0	80	138
107.0	65.0	29 21.0	118 21.0	BD	62 02 10	2011	136	461	2.95	100.0	46	157
107.0	70.0	29 11.0	118 41.0	BD	62 02 10	1801	135	491	2.75	100.0	5	167
107.0	80.0	28 48.0	119 17.0	BD	62 02 10	1301	140	461	3.03	100.0	3	125



TABLE 1. (cont.)

## CalCOFI Cruise 6201

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
107.0	90.0	28 28.0	119 57.0	BD	62 02 10	0830	142	462	3.08	100.0	17	249
110.0	33.0	29 50.0	115 52.3	HO	62 02 05	1403	74	243	3.07	100.0	142	2347
110.0	35.0	29 45.0	115 58.5	HO	62 02 05	1231	142	490	2.90	100.0	20	66
110.0	40.0	29 33.0	116 22.0	HO	62 02 05	0816	134	529	2.53	100.0	70	89
110.0	45.0	29 24.5	116 40.4	HO	62 02 05	0431	139	503	2.77	100.0	125	69
110.0	50.0	29 14.5	116 59.5	HO	62 02 05	0211	140	500	2.81	100.0	7	32
110.0	55.0	29 05.0	117 19.0	HO	62 02 04	2311	149	454	3.28	100.0	2	195
110.0	60.0	28 56.0	117 39.0	HO	62 02 04	1951	138	502	2.75	100.0	25	63
110.0	65.0	28 47.0	117 56.5	HO	62 02 04	1416	141	524	2.70	100.0	29	145
110.0	70.0	28 38.5	118 17.3	HO	62 02 04	1106	139	527	2.64	100.0	35	297
110.0	80.0	28 18.0	118 55.0	HO	62 02 04	0526	145	483	2.99	100.0	23	87
110.0	90.0	27 55.5	119 36.9	HO	62 02 04	0026	137	542	2.52	100.0	13	89
110.0	100.0	27 36.0	120 15.7	HO	62 02 03	1946	139	543	2.56	100.0	27	72
110.0	120.0	26 56.5	121 32.0	HO	62 02 03	1026	152	446	3.41	100.0	30	14
113.0	30.0	29 22.0	115 18.0	BD	62 02 11	2039	48	196	2.42	100.0	198	155
113.0	35.0	29 11.5	115 38.0	BD	62 02 11	2246	144	480	3.00	100.0	54	299
113.0	40.0	29 02.0	115 57.0	BD	62 02 12	0111	142	491	2.88	100.0	72	49
113.0	45.0	28 52.0	116 18.0	BD	62 02 12	0331	137	526	2.60	100.0	144	11
113.0	50.0	28 41.5	116 36.5	BD	62 02 12	0551	139	510	2.73	100.0	1	46
113.0	55.0	28 32.0	116 57.0	BD	62 02 12	0816	139	508	2.74	100.0	4	35
113.0	60.0	28 22.0	117 16.5	BD	62 02 12	1041	140	506	2.77	100.0	54	13
113.0	65.0	28 12.0	117 36.0	BD	62 02 12	1301	138	520	2.66	100.0	37	60
113.0	70.0	28 02.0	117 55.0	BD	62 02 12	1521	140	508	2.75	100.0	16	85
113.0	80.0	27 42.0	118 33.5	BD	62 02 12	1906	137	505	2.72	100.0	55	220
113.0	90.0	27 22.0	119 12.0	BD	62 02 12	2311	141	484	2.92	100.0	57	165
115.0	35.0	28 52.7	115 28.0	HO	62 02 15	0146	142	552	2.57	100.0	73	104
117.0	26.0	28 56.0	114 41.5	BD	62 02 14	1733	63	295	2.13	100.0	63	204
117.0	30.0	28 48.0	114 56.5	BD	62 02 14	1457	87	405	2.16	100.0	25	1447
117.0	35.0	28 38.0	115 16.0	BD	62 02 14	1226	143	471	3.03	100.0	6	1911
117.0	40.0	28 28.0	115 35.5	BD	62 02 14	0441	138	476	2.91	100.0	464	387
117.0	45.0	28 18.0	115 56.0	BD	62 02 14	0156	138	473	2.92	100.0	632	58
117.0	50.0	28 10.0	116 13.5	BD	62 02 13	2321	141	458	3.08	100.0	513	62
117.0	55.0	28 00.0	116 33.0	BD	62 02 13	2041	141	452	3.13	100.0	62	14
117.0	60.0	27 46.0	116 59.0	BD	62 02 13	1741	142	472	3.00	100.0	4	45
117.0	65.0	27 37.5	117 13.5	BD	62 02 13	1505	138	472	2.93	100.0	18	207
117.0	70.0	27 28.0	117 32.5	BD	62 02 13	1226	143	457	3.13	100.0	9	102
117.0	80.0	27 08.0	118 10.5	BD	62 02 13	0751	143	480	2.97	100.0	20	96
117.0	90.0	26 47.5	118 50.0	BD	62 02 13	0326	118	568	2.09	100.0	10	49
118.0	39.0	28 18.5	115 23.7	BD	62 02 14	0631	141	472	2.98	100.0	155	86
119.0	33.0	28 19.0	114 53.2	HO	62 02 14	2042	105	393	2.68	100.0	38	553
120.0	25.0	28 22.5	114 15.0	BD	62 02 14	2038	49	194	2.55	100.0	384	326
120.0	30.0	28 13.0	114 34.0	BD	62 02 14	2258	83	304	2.72	100.0	91	616
120.0	35.0	28 03.0	114 54.0	BD	62 02 15	0113	70	270	2.58	100.0	214	257
120.0	40.0	27 56.5	115 14.0	BD	62 02 15	0319	32	159	2.04	100.0	163	47
120.0	45.0	27 40.0	115 36.5	HO	62 02 06	0251	141	466	3.02	100.0	337	233

TABLE 1. (cont.)

## CalCOFI Cruise 6201

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
120.0	50.0	27 29.9	115 56.2	HO	62 02 06	0556	140	514	2.72	100.0	364	573
120.0	55.0	27 19.2	116 16.0	HO	62 02 06	0826	133	534	2.48	100.0	559	32
120.0	60.0	27 09.3	116 35.3	HO	62 02 06	1121	137	526	2.60	100.0	9	74
120.0	65.0	27 02.5	116 52.3	HO	62 02 06	1351	144	471	3.07	100.0	17	51
120.0	70.0	26 51.2	117 13.5	HO	62 02 06	1601	142	531	2.68	100.0	13	62
120.0	80.0	26 31.0	117 52.5	HO	62 02 06	2201	135	541	2.50	100.0	25	136
120.0	90.0	26 11.5	118 34.7	HO	62 02 07	0246	139	526	2.65	100.0	13	98
120.0	100.0	25 52.0	119 14.8	HO	62 02 07	0721	146	494	2.94	100.0	21	71
120.0	120.0	25 12.0	120 22.0	HO	62 02 07	1711	139	535	2.61	100.0	4	18
123.0	37.0	27 24.0	114 40.0	BD	62 02 15	0828	67	284	2.35	100.0	898	1528
123.0	42.0	27 14.0	114 59.0	BD	62 02 15	1036	146	471	3.10	100.0	751	251
123.0	45.0	27 08.0	115 11.5	BD	62 02 15	1211	137	476	2.88	100.0	202	120
123.0	50.0	26 56.5	115 33.3	BD	62 02 15	1446	138	485	2.85	100.0	351	328
123.0	55.0	26 45.5	115 56.0	BD	62 02 15	1711	138	497	2.79	100.0	96	105
123.0	60.0	26 38.5	116 09.0	BD	62 02 15	1846	140	469	2.98	100.0	133	57
123.0	65.0	26 29.0	116 26.0	BD	62 02 15	2101	138	519	2.66	100.0	34	87
123.0	70.0	26 19.0	116 43.5	BD	62 02 15	2311	136	508	2.67	100.0	50	38
123.0	80.0	25 58.0	117 18.0	BD	62 02 16	0316	136	496	2.75	100.0	24	23
127.0	34.0	26 55.8	114 06.5	BD	62 02 17	0623	69	273	2.53	100.0	130	1016
127.0	40.0	26 43.5	114 29.0	BD	62 02 17	0401	139	480	2.90	100.0	30	142
127.0	45.0	26 33.0	114 48.5	BD	62 02 17	0131	139	481	2.88	100.0	21	142
127.0	50.0	26 23.0	115 08.0	BD	62 02 16	2236	141	466	3.03	100.0	86	29
127.0	55.0	26 13.5	115 27.0	BD	62 02 16	1956	142	470	3.02	100.0	70	13
127.0	60.0	26 03.5	115 46.5	BD	62 02 16	1716	141	474	2.97	100.0	31	22
127.0	65.0	25 53.0	116 06.0	BD	62 02 16	1436	141	480	2.94	100.0	535	102
127.0	70.0	25 44.0	116 24.5	BD	62 02 16	1201	141	457	3.09	100.0	13	42
127.0	80.0	25 25.5	117 00.0	BD	62 02 16	0706	141	454	3.11	100.0	10	58
130.0	30.0	26 29.0	113 31.0	HO	62 02 10	0738	66	244	2.70	100.0	20	29
130.0	35.0	26 19.2	113 49.2	HO	62 02 10	0441	153	451	3.40	100.0	743	763
130.0	40.0	26 09.7	114 07.8	HO	62 02 10	0236	139	506	2.74	100.0	3333	549
130.0	45.0	25 59.0	114 28.0	HO	62 02 09	2336	137	547	2.51	100.0	769	540
130.0	50.0	25 49.0	114 47.0	HO	62 02 09	2121	138	540	2.55	100.0	253	88
130.0	55.0	25 37.1	115 05.0	HO	62 02 09	1821	144	499	2.88	100.0	219	126
130.0	60.0	25 28.0	115 23.0	HO	62 02 09	1526	142	518	2.75	100.0	7	56
130.0	70.0	25 11.0	116 03.0	HO	62 02 09	0601	148	497	2.98	100.0	20	51
130.0	80.0	24 50.0	116 40.7	HO	62 02 09	0111	134	544	2.46	100.0	120	48
130.0	90.0	24 29.5	117 17.5	HO	62 02 08	2026	142	546	2.60	100.0	67	40
130.0	100.0	24 06.0	117 59.0	HO	62 02 08	1406	142	532	2.68	100.0	25	178
130.0	120.0	23 30.0	119 07.8	HO	62 02 08	0456	47	498	2.95	100.0	58	38
133.0	25.0	26 04.5	112 48.0	BD	62 02 17	1648	60	282	2.13	100.0	920	365
133.0	30.0	25 54.5	113 07.5	BD	62 02 17	1926	139	474	2.93	100.0	1201	1137
133.0	35.0	25 44.5	113 26.5	BD	62 02 17	2156	138	462	2.99	100.0	805	389
133.0	40.0	25 34.5	113 45.5	BD	62 02 18	1226	133	508	2.62	100.0	300	121
133.0	45.0	25 24.5	114 05.5	BD	62 02 18	0301	135	496	2.72	100.0	99	78
133.0	50.0	25 15.0	114 27.0	BD	62 02 18	0526	140	445	3.15	100.0	46	33

TABLE 1. (cont.)

## CalCOFI Cruise 6201

Line Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
133.0	55.0	25 06.0	114 44.0	BD	62 02 18	0801	135	503	100.0	23	78
133.0	60.0	24 54.5	115 02.0	BD	62 02 18	1021	139	479	100.0	6	52
133.0	65.0	24 44.5	115 20.5	BD	62 02 18	1246	135	477	100.0	20	41
133.0	70.0	24 34.5	115 39.0	BD	62 02 18	1516	136	481	100.0	5	67
133.0	80.0	24 14.5	116 17.0	BD	62 02 18	1921	141	482	100.0	125	118
137.0	23.0	25 29.6	112 19.5	HO	62 02 11	0343	47	312	100.0	4107	191
137.0	30.0	25 16.7	112 44.3	HO	62 02 11	0826	142	522	100.0	487	946
137.0	35.0	25 09.8	113 04.3	HO	62 02 11	1041	143	496	100.0	798	498
137.0	40.0	25 00.5	113 22.4	HO	62 02 11	1406	139	520	100.0	19	65
137.0	45.0	24 49.0	113 46.0	HO	62 02 11	1626	142	527	100.0	36	442
137.0	50.0	24 39.0	114 05.5	HO	62 02 11	1951	142	524	100.0	27	48
137.0	55.0	24 28.8	114 24.0	HO	62 02 11	2201	143	502	100.0	44	60
137.0	60.0	24 18.8	114 43.4	HO	62 02 12	0056	141	532	100.0	145	59
137.0	70.0	23 58.5	115 22.0	HO	62 02 12	0546	148	510	100.0	74	45
137.0	80.0	23 39.0	116 01.0	HO	62 02 12	1036	142	544	100.0	69	150
140.0	30.0	24 44.0	112 25.0	HO	62 02 13	1232	104	404	100.0	463	354
140.0	35.0	24 31.3	112 43.0	HO	62 02 13	0941	140	550	100.0	57	290
140.0	40.0	24 20.8	113 01.0	HO	62 02 13	0646	140	537	100.0	13	31
140.0	45.0	24 10.8	113 20.0	HO	62 02 13	0241	135	548	100.0	60	220
140.0	50.0	24 01.5	113 39.0	HO	62 02 13	0026	147	501	100.0	15	45

TABLE 1. (cont.)

## CalCOFI Cruise 6203

Line Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
60.0	52.0	37 48.2	123 04.0	HO	62 03 26	1108	242	2.75	100.0	19	217
60.0	55.0	37 49.0	123 14.0	HO	62 03 26	1328	393	2.40	100.0	51	256
60.0	60.0	37 36.6	123 37.0	HO	62 03 26	1821	476	2.90	100.0	79	94
60.0	70.0	37 07.9	124 25.0	HO	62 03 27	0541	516	2.82	100.0	21	39
60.0	80.0	36 54.0	125 05.0	HO	62 03 27	1326	466	2.97	100.0	17	51
60.0	90.0	36 34.4	125 46.0	HO	62 03 27	2341	536	2.31	100.0	31	47
60.0	100.0	36 17.0	126 31.0	HO	62 03 28	0701	450	3.16	50.0	0	5
60.0	120.0	35 35.2	127 54.0	HO	62 03 28	2131	502	2.69	100.0	5	13
60.0	140.0	34 57.0	129 19.0	HO	62 03 29	0941	464	3.06	50.0	4	11
60.0	160.0	34 16.0	130 41.5	HO	62 03 29	2306	491	2.89	100.0	28	41
60.0	180.0	33 38.0	131 54.0	HO	62 03 30	1141	498	2.92	100.0	24	28
60.0	200.0	32 55.0	133 28.0	HO	62 03 31	0216	502	2.77	100.0	60	26
63.0	52.0	37 16.0	122 40.0	HO	62 03 23	0128	380	2.22	100.0	421	142
63.0	55.0	37 11.5	122 52.0	HO	62 03 22	2235	499	3.06	100.0	392	179
63.0	60.0	37 02.7	123 12.5	HO	62 03 22	2026	516	2.46	100.0	78	159
67.0	50.0	36 46.8	122 05.0	HO	62 03 22	0551	536	2.20	100.0	312	56
67.0	55.0	36 38.6	122 25.5	HO	62 03 22	0918	458	3.13	100.0	98	76
67.0	60.0	36 30.7	122 45.0	HO	62 03 22	1356	490	2.88	100.0	164	64
70.0	53.0	36 05.0	121 55.7	HO	62 03 21	2341	486	2.66	100.0	711	46
70.0	60.0	35 47.0	122 32.0	HO	62 03 21	1726	489	2.85	50.0	22	81
70.0	70.0	35 32.8	123 06.4	HO	62 03 21	0906	535	2.41	100.0	22	29
70.0	80.0	35 15.0	123 49.0	HO	62 03 21	0231	508	2.62	100.0	67	17
70.0	90.0	34 53.8	124 30.5	HO	62 03 20	2011	512	2.70	100.0	15	43
70.0	100.0	34 32.0	125 14.0	HO	62 03 20	1351	479	2.98	100.0	17	26
70.0	120.0	33 53.0	126 30.0	HO	62 03 19	2346	462	3.09	100.0	46	2334
70.0	200.0	31 15.0	132 07.8	HO	62 03 31	1851	496	2.84	100.0	38	23
73.0	53.0	35 31.5	121 28.5	HO	62 03 15	2006	646	1.66	50.0	97	60
73.0	60.0	35 17.0	121 56.8	HO	62 03 15	2346	566	2.20	100.0	265	96
77.0	51.0	35 02.3	120 56.7	HO	62 03 16	0946	500	2.79	100.0	198	200
77.0	55.0	34 54.4	121 13.6	HO	62 03 16	0626	515	2.71	100.0	55	111
77.0	57.0	34 48.6	121 22.0	HO	62 03 16	0421	485	2.96	100.0	47	59
80.0	52.0	34 25.0	120 35.3	HO	62 03 16	1451	505	2.66	100.0	227	409
80.0	55.0	34 18.6	120 48.0	HO	62 03 16	1836	508	2.71	100.0	66	18
80.0	65.0	34 06.6	121 08.0	HO	62 03 17	0021	464	2.77	100.0	11	232
80.0	70.0	34 00.0	121 28.0	HO	62 03 17	0411	492	2.74	100.0	47	126
80.0	80.0	33 54.0	121 50.0	HO	62 03 17	0906	577	1.86	100.0	10	37
80.0	90.0	33 33.0	122 35.0	HO	62 03 17	1956	547	2.14	100.0	130	47
80.0	100.0	33 13.1	123 16.0	HO	62 03 18	0346	502	2.77	100.0	73	122
80.0	120.0	32 11.2	125 17.0	HO	62 03 19	0231	488	2.83	100.0	44	146
80.0	200.0	29 28.8	130 34.0	HO	62 04 01	1331	417	3.75	100.0	17	10
82.0	47.0	34 15.0	119 58.0	BD	62 04 11	1011	455	3.02	50.0	61	47
83.0	40.0	34 14.0	119 22.0	BD	62 04 11	0555	98	0.80	100.0	8	547
83.0	43.0	34 08.0	119 34.0	BD	62 04 11	0726	481	2.84	100.0	326	403
83.0	51.0	33 52.0	120 07.5	BD	62 04 11	1343	305	2.99	100.0	260	288
83.0	55.0	33 44.0	120 24.5	BD	62 04 11	1546	472	2.93	100.0	147	82



TABLE 1. (cont.)

## CalCOPI Cruise 6203

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard haul factor	Percent Sorted	Total Larvae	Total Eggs
83.0	60.0	33 34.0	120 45.0	BD	62 04 11	1821	135	465	2.91	100.0	260	404
83.0	65.0	33 24.0	121 06.0	BD	62 04 11	2131	138	465	2.98	100.0	199	326
83.0	70.0	33 14.5	121 26.0	BD	62 04 11	0006	136	470	2.90	100.0	95	521
83.0	80.0	32 53.0	122 09.0	BD	62 04 12	0446	140	467	3.00	100.0	51	18
83.0	90.0	32 34.5	122 47.5	BD	62 04 12	0851	138	466	2.96	100.0	81	51
87.0	35.0	33 50.0	118 37.5	BD	62 04 13	1656	143	448	3.20	100.0	429	605
87.0	40.0	33 40.0	118 58.0	BD	62 04 13	1431	140	450	3.12	100.0	472	236
87.0	45.0	33 30.0	119 19.0	BD	62 04 13	1201	140	440	3.18	100.0	310	211
87.0	50.0	33 20.0	119 39.5	BD	62 04 13	0938	69	239	2.91	100.0	151	48
87.0	55.0	33 10.0	120 00.0	BD	62 04 13	0656	127	519	2.44	100.0	334	35
87.0	60.0	33 00.0	120 21.5	BD	62 04 13	0420	142	463	3.06	100.0	1407	45
87.0	65.0	32 49.5	120 41.5	BD	62 04 13	0201	140	456	3.06	100.0	273	83
87.0	70.0	32 39.5	121 02.0	BD	62 04 12	2316	139	390	3.56	100.0	536	456
87.0	80.0	32 19.5	121 43.0	BD	62 04 12	1830	472	140	2.96	100.0	558	168
87.0	90.0	32 00.0	122 23.0	BD	62 04 12	1331	140	470	2.97	100.0	17	25
90.0	28.0	33 28.1	117 46.8	HO	62 04 07	0406	143	444	3.23	100.0	256	523
90.0	32.0	33 19.0	118 02.7	HO	62 04 06	2341	133	508	2.62	100.0	1533	1620
90.0	37.0	33 10.2	118 23.2	HO	62 04 06	2056	138	476	2.91	100.0	1573	671
90.0	45.0	32 55.5	118 54.5	HO	62 04 06	1541	140	466	3.01	100.0	271	274
90.0	53.0	32 42.5	119 25.2	HO	62 04 06	1116	133	522	2.55	100.0	901	131
90.0	60.0	32 28.5	120 06.0	HO	62 04 06	0421	143	459	3.11	100.0	108	351
90.0	65.0	32 16.0	120 17.2	HO	62 04 06	0116	136	464	2.94	100.0	157	502
90.0	70.0	31 57.0	120 37.0	HO	62 04 05	2026	141	470	2.99	100.0	373	488
90.0	80.0	31 44.7	121 10.0	HO	62 04 05	1206	138	508	2.72	100.0	81	60
90.0	90.0	31 25.0	121 57.0	HO	62 04 05	0636	142	474	2.98	100.0	81	103
90.0	100.0	31 07.0	122 41.0	HO	62 04 05	0056	139	486	2.85	100.0	66	110
90.0	120.0	30 28.8	124 06.6	HO	62 04 04	0956	144	490	2.94	100.0	32	55
90.0	140.0	29 42.1	125 16.0	HO	62 04 03	2216	138	530	2.61	100.0	35	257
90.0	160.0	29 03.0	126 37.5	HO	62 04 03	0646	142	486	2.92	100.0	31	17
90.0	180.0	28 22.0	128 00.0	HO	62 04 02	1836	137	512	2.68	100.0	31	7
90.0	200.0	27 46.0	129 14.9	HO	62 04 02	0411	141	510	2.76	100.0	84	11
93.0	28.0	32 54.7	117 21.8	BD	62 04 14	0156	131	501	2.61	100.0	2283	37
93.0	30.0	32 50.5	117 31.0	BD	62 04 14	0341	137	470	2.92	100.0	985	551
93.0	35.0	32 40.1	117 51.5	BD	62 04 14	0636	138	464	2.98	100.0	1076	566
93.0	40.0	32 30.0	118 12.5	BD	62 04 14	0916	140	489	2.86	100.0	232	154
93.0	45.0	32 20.0	118 32.0	BD	62 04 14	1216	140	495	2.84	100.0	300	120
93.0	50.0	32 10.0	118 52.5	BD	62 04 14	1456	136	485	2.82	100.0	332	292
93.0	55.0	32 00.0	119 12.5	BD	62 04 14	1801	138	476	2.90	100.0	456	663
93.0	60.0	31 50.0	119 34.0	BD	62 04 14	2031	131	496	2.64	100.0	1417	1091
93.0	65.0	31 40.0	119 53.5	BD	62 04 14	2341	139	488	2.85	100.0	685	35
93.0	70.0	31 30.0	120 14.0	BD	62 04 15	0216	140	470	2.98	100.0	1549	223
93.0	80.0	31 10.0	120 54.5	BD	62 04 15	0721	139	461	3.02	100.0	538	2586
93.0	90.0	30 50.0	121 34.5	BD	62 04 15	1316	137	482	2.85	100.0	76	455
93.0	100.0	30 30.5	122 14.0	BD	62 04 15	1821	136	499	2.74	100.0	154	167
97.0	30.0	32 16.0	117 08.5	BD	62 04 17	0844	41	184	2.20	100.0	602	1048

TABLE 1. (cont.)

## CalCOFI Cruise 6203

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
97.0	32.0	32 12.0	117 16.5	BD	62 04 17	0726	139	437	3.18	100.0	84	57
97.0	35.0	32 04.5	117 30.5	BD	62 04 17	0521	140	439	3.19	100.0	294	572
97.0	40.0	31 56.0	117 48.0	BD	62 04 17	0256	139	477	2.92	100.0	108	743
97.0	45.0	31 46.0	118 08.5	BD	62 04 17	0206	139	435	3.18	100.0	1408	1549
97.0	50.0	31 36.0	118 29.0	BD	62 04 16	2151	142	458	3.10	100.0	460	369
97.0	55.0	31 25.5	118 49.5	BD	62 04 16	1901	141	463	3.05	50.0	69	63
97.0	60.0	31 15.5	119 10.0	BD	62 04 16	1631	144	447	3.22	25.0	24	13
97.0	65.0	31 05.0	119 30.5	BD	62 04 16	1406	141	462	3.06	100.0	115	42
97.0	70.0	30 54.0	119 52.0	BD	62 04 16	1136	142	450	3.16	100.0	212	92
97.0	80.0	30 35.0	120 24.0	BD	62 04 16	0706	140	465	3.01	100.0	174	90
97.0	90.0	30 15.5	121 10.5	BD	62 04 16	0121	141	462	3.05	100.0	73	110
100.0	30.0	31 41.0	116 45.5	HO	62 04 11	1836	139	488	2.84	100.0	1008	159
100.0	35.0	31 31.0	117 07.0	HO	62 04 11	2226	138	480	2.88	100.0	267	256
100.0	40.0	31 21.2	117 26.7	HO	62 04 12	0151	138	437	3.15	100.0	1453	361
100.0	45.0	31 10.0	117 48.0	HO	62 04 12	0611	139	457	3.04	100.0	972	71
100.0	50.0	31 00.0	118 09.9	HO	62 04 12	0926	133	469	2.84	100.0	755	68
100.0	55.0	30 49.2	118 25.8	HO	62 04 12	1446	140	510	2.75	100.0	53	93
100.0	60.0	30 39.0	118 45.4	HO	62 04 12	2005	137	494	2.77	100.0	44	16
100.0	65.0	30 25.5	119 11.0	HO	62 04 13	0337	137	479	2.86	100.0	117	29
100.0	70.0	30 16.5	119 33.0	HO	62 04 13	1606	146	507	2.88	100.0	188	78
100.0	80.0	29 58.5	120 07.0	HO	62 04 13	1606	138	526	2.63	100.0	253	47
100.0	90.0	29 38.0	120 46.8	HO	62 04 14	0016	140	499	2.81	100.0	306	64
100.0	100.0	29 19.0	121 25.0	HO	62 04 14	0736	139	532	2.62	100.0	61	45
100.0	120.0	28 40.5	122 46.8	HO	62 04 14	2156	131	576	2.27	100.0	165	27
100.0	140.0	27 59.4	124 05.8	HO	62 04 15	0931	143	519	2.76	100.0	36	30
100.0	160.0	27 22.6	125 20.0	HO	62 04 15	2136	524	139	2.65	100.0	86	46
103.0	30.0	31 06.0	116 24.5	BD	62 04 18	2303	49	223	2.18	100.0	320	911
103.0	35.0	30 56.0	116 45.0	BD	62 04 19	0121	134	448	2.98	100.0	204	62
103.0	40.0	30 43.5	117 05.8	BD	62 04 19	0341	135	483	2.80	100.0	442	23
103.0	45.0	30 36.0	117 24.0	BD	62 04 19	0601	138	450	3.06	100.0	36	91
103.0	50.0	30 26.0	117 44.5	BD	62 04 19	0821	137	455	3.01	100.0	19	102
103.0	55.0	30 16.0	118 05.0	BD	62 04 19	1106	138	456	3.04	100.0	11	31
103.0	60.0	30 08.0	118 23.0	BD	62 04 19	1351	136	457	2.96	100.0	2	62
103.0	65.0	29 56.5	118 44.0	BD	62 04 19	1656	139	476	2.92	100.0	12	21
103.0	70.0	29 45.8	119 06.2	BD	62 04 19	1936	131	493	2.65	100.0	17	47
103.0	80.0	29 24.5	119 47.0	BD	62 04 20	0025	134	535	2.50	100.0	18	118
107.0	32.0	30 25.8	116 11.0	BD	62 04 21	0846	141	433	3.26	100.0	360	202
107.0	35.0	30 20.0	116 22.5	BD	62 04 21	0701	139	447	3.11	100.0	472	1375
107.0	40.0	30 06.8	116 44.8	BD	62 04 21	0401	140	481	2.92	100.0	280	260
107.0	45.0	30 01.5	117 02.0	BD	62 04 21	0151	135	477	2.84	100.0	93	35
107.0	50.0	29 50.5	117 23.5	BD	62 04 20	2316	138	475	2.91	100.0	256	20
107.0	55.0	29 41.0	117 42.0	BD	62 04 20	2026	138	484	2.85	100.0	20	26
107.0	60.0	29 32.0	118 01.5	BD	62 04 20	1736	131	485	2.71	100.0	17	35
107.0	65.0	29 21.0	118 21.0	BD	62 04 20	1446	136	480	2.82	100.0	5	175
107.0	70.0	29 11.0	118 41.0	BD	62 04 20	1200	140	516	2.72	100.0	11	551

TABLE 1. (cont.)

## CalCOFI Cruise 6203

Line Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
107.0	80.0	28 51.5	BD	62 04 20	0621	135	495	2.74	100.0	12	260
110.0	32.0	29 50.3	HO	62 04 21	0448	50	232	2.14	100.0	319	1136
110.0	35.0	29 46.5	HO	62 04 21	0126	144	502	2.87	100.0	218	936
110.0	40.0	29 34.2	HO	62 04 20	2036	137	529	2.59	100.0	127	5
110.0	45.0	29 25.7	HO	62 04 20	1716	144	526	2.74	100.0	30	18
110.0	50.0	29 16.6	HO	62 04 20	1446	142	474	3.01	100.0	127	37
110.0	55.0	29 09.7	HO	62 04 20	1151	148	532	2.78	100.0	42	184
110.0	60.0	28 56.0	HO	62 04 20	0911	139	539	2.57	100.0	6	872
110.0	65.0	28 46.0	HO	62 04 20	0446	136	552	2.47	100.0	26	642
110.0	70.0	28 35.4	HO	62 04 20	0126	142	530	2.68	100.0	109	492
110.0	80.0	28 17.0	HO	62 04 19	1926	136	548	2.48	100.0	25	179
110.0	90.0	27 52.3	HO	62 04 19	1416	143	489	2.92	100.0	26	180
110.0	100.0	27 32.1	HO	62 04 19	0456	140	513	2.73	100.0	27	84
110.0	120.0	26 56.8	HO	62 04 18	1621	137	609	2.26	100.0	4	77
110.0	140.0	26 16.0	HO	62 04 18	0421	144	515	2.79	100.0	31	33
110.0	160.0	25 34.7	HO	62 04 17	1506	140	529	2.65	100.0	32	5
113.0	30.0	29 22.0	BD	62 04 21	1733	48	183	2.60	100.0	50	27
113.0	35.0	29 11.5	BD	62 04 21	1946	139	454	3.07	100.0	124	149
113.0	40.0	29 02.0	BD	62 04 21	2211	139	450	3.08	50.0	4012	65
113.0	45.0	28 51.0	BD	62 04 22	0036	138	461	2.98	100.0	687	98
113.0	50.0	28 41.0	BD	62 04 22	0301	136	446	3.05	100.0	236	89
113.0	55.0	28 30.0	BD	62 04 22	0526	138	461	3.00	100.0	33	30
113.0	60.0	28 20.0	BD	62 04 22	0756	136	479	2.85	100.0	39	46
113.0	65.0	28 12.0	BD	62 04 22	1031	140	465	3.00	100.0	47	95
113.0	70.0	28 02.0	BD	62 04 22	1301	140	474	2.96	100.0	134	286
113.0	80.0	27 42.0	BD	62 04 22	1736	135	474	2.85	100.0	26	153
113.0	90.0	27 22.0	BD	62 04 22	2151	137	473	2.89	100.0	141	136
115.0	35.0	28 54.5	HO	62 05 01	1601	131	515	2.55	100.0	323	49
117.0	26.0	28 56.0	BD	62 04 24	1458	70	248	2.82	100.0	602	288
117.0	30.0	28 48.0	BD	62 04 24	1307	80	351	2.28	100.0	3318	585
117.0	35.0	28 38.0	BD	62 04 24	1036	134	503	2.67	100.0	271	819
117.0	40.0	28 28.0	BD	62 04 24	0101	136	498	2.73	100.0	305	16
117.0	45.0	28 18.0	BD	62 04 23	2231	137	483	2.83	100.0	848	4
117.0	50.0	28 05.0	BD	62 04 23	1956	137	477	2.87	100.0	377	52
117.0	55.0	27 58.0	BD	62 04 23	1731	136	479	2.83	100.0	62	40
117.0	60.0	27 48.0	BD	62 04 23	1521	122	508	2.41	100.0	70	76
117.0	65.0	27 37.5	BD	62 04 23	1306	124	506	2.44	100.0	23	58
117.0	70.0	27 28.0	BD	62 04 23	1041	137	480	2.86	100.0	46	77
117.0	80.0	27 10.0	BD	62 04 23	0621	118	524	2.26	100.0	71	52
117.0	90.0	26 50.0	BD	62 04 23	0205	140	483	2.89	100.0	59	126
118.0	39.0	28 18.5	BD	62 04 24	0246	122	446	2.73	100.0	562	57
119.0	33.0	28 18.5	HO	62 05 01	1027	94	401	2.34	100.0	396	896
120.0	25.0	28 22.5	BD	62 04 24	1858	46	199	2.31	100.0	826	319
120.0	30.0	28 13.0	BD	62 04 24	2058	74	293	2.54	100.0	1835	1965
120.0	35.0	28 03.0	BD	62 04 24	2313	63	288	2.18	100.0	167	520



TABLE 1. (cont.)

## CalCOFI Cruise 6203

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
120.0	40.0	27 56.5	115 14.0	BD	62 04 25	0114	29	149	1.92	100.0	547	200
120.0	45.0	27 43.2	115 32.3	HO	62 04 22	1611	143	499	2.86	100.0	33	92
120.0	50.0	27 29.1	115 51.5	HO	62 04 22	2141	134	523	2.55	100.0	558	91
120.0	55.0	27 09.2	116 18.5	HO	62 04 23	0426	135	530	2.54	100.0	152	28
120.0	60.0	27 00.0	116 36.3	HO	62 04 23	0826	128	511	2.50	100.0	9	73
120.0	65.0	26 52.8	116 54.1	HO	62 04 23	1141	134	515	2.61	100.0	34	115
120.0	70.0	26 51.0	117 09.2	HO	62 04 23	1616	139	505	2.76	100.0	28	30
120.0	80.0	26 31.0	117 47.0	HO	62 04 24	0011	138	520	2.86	100.0	47	54
120.0	90.0	26 09.0	118 26.2	HO	62 04 24	0656	141	493	2.86	100.0	23	268
120.0	100.0	25 50.9	119 05.0	HO	62 04 24	1526	142	514	2.76	100.0	27	43
120.0	120.0	25 12.0	120 18.0	HO	62 04 24	2306	142	516	2.75	100.0	35	73
123.0	37.0	27 24.0	114 40.0	BD	62 04 25	0613	66	248	2.67	100.0	250	68
123.0	42.0	27 14.0	114 59.0	BD	62 04 25	0826	136	504	2.70	100.0	33	10
123.0	45.0	27 08.0	115 11.5	BD	62 04 25	1001	136	504	2.70	100.0	35	2
123.0	50.0	26 58.0	115 31.0	BD	62 04 25	1226	138	467	2.96	25.0	15	1
123.0	55.0	26 47.0	115 50.5	BD	62 04 25	1505	137	489	2.81	25.0	74	16
123.0	60.0	26 38.5	116 09.0	BD	62 04 25	1716	137	477	2.88	100.0	103	28
123.0	65.0	25 28.5	116 28.0	BD	62 04 25	1931	136	461	2.94	100.0	59	30
123.0	70.0	26 19.0	116 47.0	BD	62 04 25	2146	141	461	3.07	100.0	57	41
123.0	80.0	25 59.0	117 25.5	BD	62 04 26	0151	141	447	3.16	100.0	36	33
127.0	34.0	26 55.0	114 06.5	BD	62 04 27	0443	70	260	2.68	100.0	1	16
127.0	40.0	26 42.7	114 23.5	BD	62 04 27	0206	126	486	2.60	100.0	73	49
127.0	45.0	26 33.5	114 44.4	BD	62 04 26	2336	136	437	3.11	100.0	152	47
127.0	50.0	26 25.0	115 04.2	BD	62 04 26	2106	135	454	2.97	100.0	187	16
127.0	55.0	26 16.0	115 24.0	BD	62 04 26	1836	138	458	3.02	100.0	69	36
127.0	60.0	26 05.5	115 43.7	BD	62 04 26	1601	137	465	2.95	100.0	23	25
127.0	65.0	25 53.0	116 06.0	BD	62 04 26	1326	135	489	2.77	100.0	15	66
127.0	70.0	25 49.0	116 27.0	BD	62 04 26	1101	138	453	3.04	100.0	6	49
127.0	80.0	25 29.5	117 02.5	BD	62 04 26	0604	135	461	2.94	100.0	31	63
130.0	30.0	26 29.0	113 49.0	HO	62 04 27	1534	36	145	2.45	100.0	5	167
130.0	35.0	26 13.0	113 29.0	HO	62 04 27	1211	140	506	2.77	100.0	7	109
130.0	40.0	26 04.2	114 09.2	HO	62 04 27	0911	141	496	2.84	100.0	25	288
130.0	45.0	25 56.0	114 27.0	HO	62 04 27	0621	138	510	2.70	100.0	138	72
130.0	50.0	25 48.0	114 46.4	HO	62 04 27	0406	146	487	3.00	100.0	217	35
130.0	55.0	25 39.5	115 04.0	HO	62 04 27	0111	144	503	2.86	100.0	111	37
130.0	60.0	25 29.2	115 23.5	HO	62 04 26	2256	137	523	2.62	100.0	86	245
130.0	70.0	25 10.0	116 01.5	HO	62 04 26	1716	139	549	2.52	100.0	26	537
130.0	80.0	24 42.9	116 37.8	HO	62 04 26	1051	137	540	2.54	100.0	5	431
130.0	90.0	24 27.0	117 16.0	HO	62 04 26	0446	138	526	2.62	100.0	174	976
130.0	100.0	24 11.8	117 55.4	HO	62 04 26	0016	144	520	2.78	100.0	71	703
130.0	120.0	23 31.0	119 12.2	HO	62 04 25	1426	139	534	2.60	100.0	45	358
133.0	25.0	26 04.5	112 48.0	BD	62 04 27	1643	68	256	2.64	100.0	197	499
133.0	30.0	25 54.5	113 07.5	BD	62 04 27	1911	132	482	2.73	100.0	13	1
133.0	35.0	25 44.5	113 26.5	BD	62 04 27	2146	133	494	2.69	100.0	85	16
133.0	40.0	25 34.5	113 45.5	BD	62 04 28	0021	133	485	2.74	100.0	64	9



TABLE 1. (cont.)

## CalCOFI Cruise 6203

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
133.0	45.0	25 25.2	114 05.5	BD	62 04 28	0246	132	488	2.70	100.0	110	31
133.0	50.0	25 15.5	114 26.5	BD	62 04 28	0516	136	475	2.86	100.0	113	61
133.0	55.0	25 06.8	114 46.0	BD	62 04 28	0746	132	487	2.70	100.0	186	106
133.0	60.0	24 57.0	115 06.5	BD	62 04 28	1016	135	478	2.82	100.0	36	32
133.0	65.0	24 49.0	115 25.0	BD	62 04 28	1236	138	483	2.86	100.0	10	57
133.0	70.0	24 39.0	115 40.5	BD	62 04 28	1456	143	432	3.30	100.0	36	222
133.0	80.0	24 14.5	116 17.0	BD	62 04 28	1916	139	477	2.92	100.0	9	176
137.0	23.0	25 36.0	112 20.8	HO	62 04 27	2338	67	309	2.17	100.0	7	69
137.0	30.0	25 21.0	112 46.2	HO	62 04 28	0302	141	493	2.85	100.0	72	19
137.0	35.0	25 09.2	113 06.5	HO	62 04 28	0516	139	477	2.92	100.0	72	16
137.0	40.0	24 55.7	113 29.1	HO	62 04 28	0801	144	488	2.95	100.0	31	23
137.0	45.0	24 46.1	113 45.2	HO	62 04 28	0926	136	512	2.66	100.0	24	73
137.0	50.0	24 30.0	114 05.0	HO	62 04 28	1356	142	507	2.81	100.0	34	995
137.0	55.0	24 28.5	114 21.6	HO	62 04 28	1526	139	528	2.63	100.0	87	196
137.0	60.0	24 21.0	114 36.4	HO	62 04 28	1801	140	501	2.80	100.0	75	47
137.0	70.0	23 59.5	115 17.5	HO	62 04 29	0001	138	526	2.61	100.0	53	122
137.0	80.0	23 37.5	115 52.5	HO	62 04 29	0516	140	496	2.83	100.0	45	79
140.0	30.0	24 46.0	112 24.8	HO	62 04 30	0633	68	272	2.48	100.0	12	72
140.0	35.0	24 35.5	112 42.4	HO	62 04 30	0341	144	507	2.84	100.0	90	40
140.0	40.0	24 25.0	113 01.5	HO	62 04 30	0121	137	518	2.64	100.0	101	34
140.0	45.0	24 14.0	113 20.0	HO	62 04 29	2211	138	530	2.61	100.0	60	9
140.0	50.0	24 03.5	113 39.0	HO	62 04 29	1956	138	539	2.56	100.0	55	30

TABLE 1. (cont.)

## CalCOFI Cruise 6207

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
80.0	53.0	34 22.0	120 41.0	BD	62 08 20	0216	142	581	2.45	100.0	87	47
80.0	60.0	34 09.0	121 09.0	BD	62 08 20	0801	141	529	2.67	100.0	18	4
80.0	70.0	33 49.0	121 51.0	BD	62 08 20	1646	140	539	2.60	100.0	7	2
80.0	80.0	33 28.0	122 32.0	BD	62 08 20	2251	140	459	3.05	100.0	5	24
80.0	90.0	33 09.0	123 13.0	BD	62 08 21	0511	139	468	2.96	100.0	14	13
80.0	100.0	32 49.0	123 53.0	BD	62 08 21	1206	141	474	2.98	100.0	5	10
80.0	110.0	32 30.5	124 37.0	BD	62 08 21	1836	139	484	2.86	100.0	6	15
80.0	120.0	32 09.0	125 15.0	BD	62 08 22	0056	136	523	2.59	100.0	12	35
80.0	130.0	31 49.0	125 56.0	BD	62 08 22	0616	134	527	2.55	100.0	33	51
80.0	140.0	31 29.0	126 36.5	BD	62 08 22	1211	137	550	2.48	100.0	29	108
80.0	150.0	31 08.5	127 17.0	BD	62 08 22	1806	137	503	2.73	100.0	25	10
80.0	160.0	30 49.0	127 56.5	BD	62 08 22	2331	141	503	2.80	100.0	133	9
80.0	170.0	30 26.0	128 32.5	BD	62 08 23	0631	138	517	2.66	100.0	44	9
80.0	180.0	30 09.0	129 16.0	BD	62 08 23	1217	140	686	2.04	100.0	32	13
80.0	190.0	29 48.0	129 58.0	BD	62 08 23	1816	137	522	2.63	100.0	46	5
80.0	200.0	29 28.5	130 35.5	BD	62 08 24	0116	141	540	2.61	100.0	115	5
82.0	47.0	34 15.0	119 58.0	BD	62 07 10	0651	137	441	3.10	12.5	9	1
83.0	40.0	34 13.6	119 21.7	BD	62 07 10	0210	17	69	2.48	100.0	24	64
83.0	43.0	34 07.8	119 34.2	BD	62 07 10	0351	136	511	2.66	50.0	70	60
83.0	51.0	33 52.0	120 07.5	BD	62 07 10	1018	86	334	2.57	100.0	55	13
83.0	55.0	33 43.9	120 24.4	BD	62 07 10	1226	140	512	2.73	50.0	6	1
83.0	60.0	33 34.2	120 45.0	BD	62 07 10	1451	137	502	2.74	50.0	3	20
83.0	65.0	33 24.0	121 05.8	BD	62 07 10	1726	137	492	2.79	100.0	18	6
83.0	70.0	33 14.2	121 26.0	BD	62 07 10	1946	140	501	2.80	100.0	28	8
83.0	80.0	32 52.8	122 06.5	BD	62 07 11	0026	136	533	2.54	100.0	21	3
83.0	90.0	32 32.8	122 46.0	BD	62 07 11	0451	139	523	2.66	100.0	25	2
87.0	35.0	33 49.7	118 37.5	BD	62 07 12	1641	141	478	2.96	15.0	11	0
87.0	40.0	33 39.7	118 58.3	BD	62 07 12	1416	138	480	2.88	100.0	232	7
87.0	45.0	33 29.8	119 19.2	BD	62 07 12	1141	141	449	3.14	100.0	106	83
87.0	50.0	33 20.0	119 39.2	BD	62 07 12	0908	68	266	2.57	100.0	13	36
87.0	55.0	33 10.0	120 00.0	BD	62 07 12	0555	139	473	2.94	100.0	22	32
87.0	60.0	33 00.0	120 21.5	BD	62 07 12	0300	141	534	2.64	15.0	3	4
87.0	65.0	32 49.8	120 41.5	BD	62 07 12	0011	138	535	2.57	100.0	9	4
87.0	70.0	32 38.5	121 02.0	BD	62 07 11	1506	138	459	2.99	100.0	13	13
87.0	80.0	32 02.2	122 23.0	BD	62 07 11	0906	140	467	3.01	100.0	16	49
87.0	90.0	33 28.5	117 46.7	BD	62 08 29	0731	135	496	2.73	100.0	5	28
90.0	28.0	33 25.0	117 53.5	BD	62 08 29	0536	137	466	2.93	100.0	42	190
90.0	30.0	33 04.5	118 35.5	BD	62 08 28	2246	134	567	2.36	100.0	94	238
90.0	40.0	32 45.0	119 16.0	BD	62 08 28	1751	140	521	2.68	100.0	182	175
90.0	50.0	32 25.0	119 57.5	BD	62 08 28	1231	138	565	2.44	100.0	20	4
90.0	60.0	32 05.0	120 38.5	BD	62 08 28	0621	140	523	2.67	100.0	84	2
90.0	70.0	31 45.0	121 19.5	BD	62 08 27	2241	141	524	2.68	100.0	17	22
90.0	80.0	31 25.0	121 59.0	BD	62 08 27	1631	143	521	2.74	100.0	37	40
90.0	90.0	31 05.0	122 39.0	BD	62 08 27	1016	140	532	2.64	100.0	33	68
90.0	100.0			BD							32	285

TABLE 1. (cont.)

CalCOFI Cruise 6207												
Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
90.0	110.0	30 48.0	123 13.0	BD	62 08 27	0451	140	547	2.57	100.0	118	289
90.0	120.0	30 24.5	123 59.5	BD	62 08 26	2211	136	572	2.38	100.0	134	77
90.0	130.0	30 05.0	124 39.5	BD	62 08 26	1551	141	558	2.52	100.0	98	44
90.0	140.0	29 45.0	125 20.0	BD	62 08 26	0931	139	565	2.46	100.0	86	18
90.0	150.0	29 27.0	126 00.5	BD	62 08 26	0316	144	576	2.51	100.0	117	52
90.0	160.0	29 03.5	126 41.0	BD	62 08 25	2051	147	585	2.51	100.0	151	7
90.0	170.0	28 44.5	127 19.0	BD	62 08 25	1406	142	573	2.47	100.0	32	11
90.0	180.0	28 28.0	127 59.0	BD	62 08 25	0656	141	587	2.39	100.0	28	10
90.0	200.0	27 44.5	129 17.0	BD	62 08 24	1656	140	586	2.39	100.0	16	7
93.0	28.0	32 54.7	117 21.8	BD	62 07 14	1656	134	530	2.54	100.0	144	34
93.0	30.0	32 50.5	117 31.0	BD	62 07 14	1926	131	568	2.30	100.0	487	13
93.0	35.0	32 40.5	117 51.5	BD	62 07 14	2251	143	491	2.92	100.0	158	29
93.0	40.0	32 30.0	118 11.5	BD	62 07 15	0116	136	531	2.56	100.0	289	26
93.0	45.0	32 20.0	118 32.0	BD	62 07 15	0421	139	506	2.74	100.0	26	2
93.0	50.0	32 10.0	118 52.5	BD	62 07 15	0701	136	536	2.55	50.0	9	11
93.0	55.0	32 00.0	119 13.5	BD	62 07 15	1036	137	528	2.59	100.0	20	24
93.0	60.0	31 50.0	119 34.0	BD	62 07 15	1356	138	533	2.60	100.0	30	41
93.0	65.0	31 40.0	119 53.0	BD	62 07 15	1721	136	496	2.74	25.0	16	33
93.0	70.0	31 30.0	120 14.0	BD	62 07 15	2001	138	512	2.70	50.0	7	2
93.0	80.0	31 10.0	120 54.5	BD	62 07 16	0126	136	536	2.53	100.0	22	140
93.0	90.0	30 50.0	121 34.5	BD	62 07 16	0656	141	525	2.68	100.0	13	151
93.0	100.0	30 30.5	122 14.0	BD	62 07 16	1256	138	547	2.52	100.0	66	50
97.0	30.0	32 16.0	117 09.0	PT	62 07 20	1454	54	222	2.42	100.0	60	257
97.0	35.0	32 05.5	117 27.5	PT	62 07 20	1901	139	518	2.68	50.0	4	4
97.0	40.0	31 56.0	117 48.0	PT	62 07 20	2156	134	556	2.41	50.0	10	8
97.0	45.0	31 46.0	118 08.5	PT	62 07 21	0056	145	483	2.99	100.0	30	21
97.0	50.0	31 36.0	118 29.0	PT	62 07 21	0351	138	510	2.70	100.0	33	53
97.0	55.0	31 25.5	118 49.5	PT	62 07 21	0646	137	485	2.82	100.0	22	25
97.0	60.0	31 15.5	119 10.0	PT	62 07 21	0941	138	492	2.80	100.0	5	22
97.0	65.0	31 05.0	119 30.5	PT	62 07 21	1244	149	483	3.09	50.0	7	8
97.0	70.0	30 55.0	119 50.5	PT	62 07 21	1541	135	506	2.66	25.0	3	2
97.0	80.0	30 35.0	120 31.0	PT	62 07 21	2116	140	513	2.73	100.0	85	92
97.0	90.0	30 16.5	121 08.5	PT	62 07 22	0256	150	465	3.24	100.0	124	330
100.0	30.0	31 40.5	116 46.5	BD	62 07 18	1046	137	531	2.59	100.0	21	118
100.0	35.0	31 30.5	117 07.0	BD	62 07 18	0721	138	495	2.78	100.0	31	21
100.0	40.0	31 21.0	117 27.0	BD	62 07 18	0416	137	407	3.36	100.0	32	72
100.0	45.0	31 10.5	117 46.5	BD	62 07 18	0141	138	504	2.74	100.0	34	10
100.0	50.0	31 00.5	118 07.0	BD	62 07 17	2236	133	514	2.59	100.0	20	7
100.0	55.0	30 50.5	118 27.5	BD	62 07 17	2006	136	576	2.36	100.0	123	60
100.0	60.0	30 40.5	118 47.5	BD	62 07 17	1636	137	569	2.40	100.0	41	82
100.0	65.0	30 32.5	119 08.5	BD	62 07 17	1416	137	589	2.34	100.0	43	49
100.0	70.0	30 23.5	119 27.0	BD	62 07 17	1011	138	581	2.37	100.0	75	74
100.0	80.0	30 06.5	120 07.0	BD	62 07 17	0446	140	549	2.56	100.0	285	68
100.0	90.0	29 40.5	120 47.0	BD	62 07 16	2321	136	566	2.40	100.0	222	268
103.0	30.0	31 06.0	116 24.5	PT	62 07 23	2148	38	216	1.76	100.0	26	54

TABLE 1. (cont.)

## CalCOFI Cruise 6207

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
103.0	35.0	30 54.0	116 40.5	PT	62 07 23	1916	125	516	2.42	100.0	27	23
103.0	40.0	30 45.0	117 02.5	PT	62 07 23	1621	122	531	2.30	100.0	30	8
103.0	45.0	30 36.0	117 24.0	PT	62 07 23	1326	134	512	2.62	100.0	22	53
103.0	50.0	30 21.0	117 38.5	PT	62 07 23	1026	142	500	2.84	100.0	11	56
103.0	55.0	30 13.0	117 59.0	PT	62 07 23	0736	138	490	2.82	100.0	14	15
103.0	60.0	30 04.0	118 19.5	PT	62 07 23	0441	132	499	2.65	100.0	48	74
103.0	65.0	29 54.5	118 39.5	PT	62 07 23	0146	139	506	2.74	100.0	55	29
103.0	70.0	29 45.5	118 59.0	PT	62 07 22	2251	142	522	2.72	100.0	42	58
103.0	80.0	29 27.0	119 40.5	PT	62 07 22	1726	150	492	3.04	100.0	47	479
103.0	90.0	29 04.0	120 23.0	PT	62 07 22	1151	140	473	2.96	100.0	70	1336
107.0	32.0	30 26.8	116 10.5	PT	62 07 24	0728	74	365	2.04	100.0	14	951
107.0	35.0	30 21.5	116 22.5	PT	62 07 24	0916	137	477	2.87	50.0	1	27
107.0	40.0	30 11.0	116 42.0	PT	62 07 24	1201	129	534	2.42	100.0	58	426
107.0	45.0	30 01.0	117 01.0	PT	62 07 24	1511	138	494	2.78	100.0	29	52
107.0	50.0	29 50.5	117 20.5	PT	62 07 24	1806	139	495	2.81	100.0	5	12
107.0	55.0	29 41.0	117 40.5	PT	62 07 24	2106	139	497	2.80	100.0	4	7
107.0	60.0	29 31.0	118 00.0	PT	62 07 25	0011	148	451	3.29	100.0	26	40
107.0	65.0	29 20.5	118 20.5	PT	62 07 25	0301	127	516	2.47	100.0	69	188
107.0	70.0	29 10.0	118 40.5	PT	62 07 25	0536	138	487	2.84	100.0	78	190
107.0	80.0	28 48.5	119 21.5	PT	62 07 25	1101	144	456	3.15	100.0	21	378
107.0	90.0	28 32.5	119 59.0	PT	62 07 25	1541	143	485	2.95	100.0	37	91
110.0	32.0	29 50.0	115 52.0	BD	62 07 19	0148	83	358	2.31	100.0	20	301
110.0	35.0	29 46.0	116 00.0	BD	62 07 19	0311	138	504	2.73	100.0	41	165
110.0	40.0	29 36.5	116 19.5	BD	62 07 19	0636	137	511	2.69	100.0	7	8
110.0	45.0	29 26.5	116 39.5	BD	62 07 19	0931	135	434	3.11	100.0	17	78
110.0	50.0	29 14.5	117 01.0	BD	62 07 19	1246	135	459	2.95	100.0	14	30
110.0	55.0	29 06.5	117 19.0	BD	62 07 19	1536	137	545	2.51	100.0	41	11
110.0	60.0	28 56.5	117 38.0	BD	62 07 19	1856	139	532	2.62	100.0	11	12
110.0	65.0	28 46.0	117 59.0	BD	62 07 19	2126	136	573	2.38	100.0	29	41
110.0	70.0	28 36.5	118 18.0	BD	62 07 19	2351	136	560	2.43	100.0	60	120
110.0	80.0	28 18.5	118 52.0	BD	62 07 20	0506	138	536	2.57	100.0	67	557
110.0	90.0	27 56.5	119 35.0	BD	62 07 20	1436	135	579	2.33	100.0	72	369
113.0	30.0	29 20.0	115 16.0	PT	62 07 27	0938	66	316	2.08	100.0	8	54
113.0	35.0	29 11.5	115 34.0	PT	62 07 27	0636	119	522	2.27	100.0	10	15
113.0	40.0	29 02.0	115 53.5	PT	62 07 27	0351	133	495	2.68	100.0	48	19
113.0	45.0	28 52.0	116 14.0	PT	62 07 27	0106	127	507	2.51	100.0	23	27
113.0	50.0	28 42.5	116 33.5	PT	62 07 26	2221	134	487	2.75	100.0	7	29
113.0	55.0	28 33.0	116 55.0	PT	62 07 26	1936	126	540	2.32	100.0	41	1
113.0	60.0	28 23.5	117 14.0	PT	62 07 26	1646	124	538	2.30	100.0	59	49
113.0	65.0	28 14.0	117 34.0	PT	62 07 26	1356	121	546	2.22	100.0	29	88
113.0	70.0	28 04.5	117 54.5	PT	62 07 26	1121	132	525	2.51	100.0	25	1216
113.0	80.0	27 44.0	118 33.5	PT	62 07 26	0546	138	476	2.91	100.0	71	609
113.0	90.0	27 23.0	119 11.0	PT	62 07 26	0016	119	546	2.18	100.0	21	564
115.0	35.0	28 54.5	115 27.0	BD	62 07 22	1426	142	523	2.71	100.0	2	4
117.0	26.0	28 56.5	114 41.5	BD	62 07 22	2018	69	293	2.35	100.0	4	447



TABLE 1. (cont.)

## CalCOFI Cruise 6207

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
117.0	30.0	28 48.0	114 56.5	BD	62 07 22	1822	88	251	3.48	100.0	8	147
117.0	35.0	28 38.0	115 16.0	BD	62 07 22	1126	137	552	2.49	100.0	48	104
117.0	40.0	28 28.0	115 35.5	BD	62 07 22	0141	136	556	2.44	100.0	243	223
117.0	45.0	28 17.8	115 55.6	BD	62 07 22	2251	138	553	2.49	100.0	11	9
117.0	50.0	28 08.0	116 15.0	BD	62 07 21	2016	141	532	2.65	100.0	14	20
117.0	55.0	28 01.0	116 35.0	BD	62 07 21	1701	142	536	2.65	100.0	28	19
117.0	60.0	27 50.5	116 55.0	BD	62 07 21	1411	141	565	2.49	100.0	27	114
117.0	65.0	27 39.0	117 14.5	BD	62 07 21	1041	137	550	2.50	100.0	21	315
117.0	70.0	27 28.0	117 32.5	BD	62 07 21	0801	137	549	2.50	100.0	71	405
117.0	80.0	27 09.0	118 09.0	BD	62 07 21	0331	143	535	2.68	100.0	210	116
117.0	90.0	26 47.5	118 50.0	BD	62 07 20	2256	138	575	2.39	100.0	525	102
118.0	39.0	28 18.5	115 23.7	BD	62 07 22	0356	141	521	2.71	100.0	182	105
119.0	33.0	28 19.0	114 53.0	BD	62 07 23	0607	91	442	2.07	100.0	354	254
120.0	25.0	28 22.5	114 15.0	BD	62 07 23	0059	34	162	2.10	100.0	510	193
120.0	30.0	28 13.1	114 34.0	BD	62 07 23	0333	70	292	2.40	100.0	166	462
120.0	35.0	28 03.0	114 54.0	BD	62 07 23	1038	76	345	2.20	100.0	451	1869
120.0	40.0	27 56.5	115 14.0	BD	62 07 23	1429	32	170	1.88	100.0	96	601
120.0	45.0	27 43.0	115 33.0	BD	62 07 23	1646	137	521	2.63	100.0	103	268
120.0	50.0	27 33.0	115 52.5	BD	62 07 23	2006	142	531	2.67	100.0	124	61
120.0	55.0	27 23.0	116 12.0	BD	62 07 23	2326	143	535	2.67	100.0	360	160
120.0	60.0	27 13.0	116 30.5	BD	62 07 24	0201	135	559	2.42	100.0	343	70
120.0	65.0	27 03.0	116 50.5	BD	62 07 24	0521	139	543	2.55	100.0	179	38
120.0	70.0	26 53.0	117 19.0	BD	62 07 24	0831	135	550	2.45	100.0	132	25
120.0	80.0	26 32.5	117 49.0	BD	62 07 24	1526	139	562	2.48	100.0	237	16
120.0	90.0	26 13.0	118 27.0	BD	62 07 24	2011	136	571	2.39	100.0	960	3
123.0	37.0	27 24.0	114 40.0	BD	62 07 26	0338	68	316	2.16	100.0	78	30
123.0	42.0	27 10.5	114 56.5	BD	62 07 25	2346	137	533	2.58	100.0	773	358
123.0	45.0	27 02.5	115 11.2	BD	62 07 25	2146	140	562	2.48	100.0	155	33
123.0	50.0	26 52.5	115 29.0	BD	62 07 25	1910	138	525	2.63	100.0	234	11
123.0	55.0	26 45.0	115 47.5	BD	62 07 25	1636	136	478	2.84	100.0	42	17
123.0	60.0	26 38.2	116 08.0	BD	62 07 25	1416	138	575	2.39	100.0	149	29
123.0	65.0	26 28.5	116 28.0	BD	62 07 25	1046	137	601	2.28	100.0	113	51
123.0	70.0	26 19.0	116 47.0	BD	62 07 25	0811	141	563	2.50	100.0	87	40
123.0	80.0	25 59.0	117 25.5	BD	62 07 25	0928	140	540	2.60	100.0	556	20
127.0	34.0	26 55.0	114 06.5	BD	62 07 26	0326	69	302	2.28	100.0	159	114
127.0	40.0	26 43.5	114 29.0	BD	62 07 26	1246	139	562	2.47	100.0	84	23
127.0	45.0	26 34.5	114 48.5	BD	62 07 26	1546	138	537	2.58	100.0	53	22
127.0	50.0	26 23.0	115 11.5	BD	62 07 26	1856	138	550	2.51	100.0	187	57
127.0	55.0	26 13.5	115 27.0	BD	62 07 26	2116	132	557	2.38	100.0	116	46
127.0	60.0	26 03.0	115 46.0	BD	62 07 26	2351	136	553	2.46	100.0	399	24
127.0	65.0	25 51.5	116 05.0	BD	62 07 27	0221	137	566	2.43	100.0	164	8
127.0	70.0	25 39.0	116 25.0	BD	62 07 27	0500	138	542	2.54	100.0	74	32
127.0	80.0	25 24.0	117 02.5	BD	62 07 27	0951	137	586	2.35	100.0	139	48
130.0	30.0	26 29.0	113 29.0	BD	62 07 29	0658	73	297	2.46	100.0	41	499
130.0	35.0	26 19.0	113 48.0	BD	62 07 29	0346	139	477	2.92	100.0	235	131



TABLE 1. (cont.)

CalCOFI Cruise 6207												
Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
130.0	40.0	26 09.0	114 07.0	BD	62 07 29	0036	141	471	3.00	100.0	17	36
130.0	45.0	25 58.5	114 26.5	BD	62 07 28	2151	141	502	2.81	100.0	13	103
130.0	50.0	25 50.0	114 44.0	BD	62 07 28	1841	141	518	2.73	100.0	76	43
130.0	55.0	25 39.0	115 04.0	BD	62 07 28	1516	139	521	2.68	100.0	8	5
130.0	60.0	25 27.5	115 24.0	BD	62 07 28	1116	138	534	2.58	100.0	30	18
130.0	65.0	25 19.0	115 42.7	BD	62 07 28	0851	136	553	2.46	100.0	13	10
130.0	70.0	25 07.0	116 06.0	BD	62 07 28	0431	140	547	2.55	100.0	266	60
130.0	80.0	24 48.2	116 41.2	BD	62 07 27	2226	141	546	2.59	100.0	226	34
130.0	90.0	24 29.0	117 17.5	BD	62 07 27	1626	139	541	2.57	100.0	41	30

TABLE 1. (cont.)

CalCOFI Cruise 6210												
Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
60.0	52.0	37 53.8	123 01.5	AX	62 10 18	0813	65	265	2.46	100.0	4	200
60.0	55.0	37 47.5	123 15.0	AX	62 10 18	1047	88	328	2.68	100.0	10	37
60.0	60.0	37 38.0	123 36.8	AX	62 10 18	1450	144	471	3.06	100.0	46	24
60.0	70.0	37 17.0	124 20.0	AX	62 10 18	2026	137	496	2.76	100.0	20	11
60.0	80.0	36 56.5	125 04.0	AX	62 10 19	0220	136	517	2.63	100.0	8	6
60.0	90.0	36 37.0	125 47.0	AX	62 10 19	0801	122	557	2.20	100.0	15	12
60.0	100.0	36 28.0	126 09.0	AX	62 10 25	1241	138	515	2.68	100.0	6	14
60.0	120.0	35 36.9	127 53.7	AX	62 10 26	0101	139	514	2.69	100.0	4	16
60.0	140.0	34 55.0	129 16.2	AX	62 10 26	1111	140	543	2.58	100.0	23	16
60.0	160.0	34 16.0	130 41.5	AX	62 10 26	2011	140	488	2.87	100.0	44	91
60.0	180.0	33 37.2	132 05.0	AX	62 10 27	0451	142	501	2.84	100.0	37	14
60.0	200.0	32 55.2	133 27.0	AX	62 10 27	1331	141	502	2.80	100.0	5	13
63.0	52.0	37 18.7	122 37.0	AX	62 10 18	0248	83	299	2.77	100.0	13	126
63.0	55.0	37 12.5	122 49.8	AX	62 10 17	2356	142	494	2.88	100.0	206	130
63.0	60.0	37 02.5	123 10.8	AX	62 10 17	2041	139	500	2.77	100.0	30	9
67.0	50.0	36 49.0	122 04.5	AX	62 10 15	0716	96	350	2.74	100.0	4	11
70.0	53.0	36 07.4	121 53.9	AX	62 10 14	0056	107	421	2.54	25.0	5	2
70.0	70.0	35 32.0	123 05.2	AX	62 10 14	1446	137	493	2.77	100.0	9	10
70.0	80.0	35 00.9	123 39.0	AX	62 10 14	0531	144	494	2.91	100.0	7	1
70.0	90.0	34 48.6	124 27.2	AX	62 10 14	0006	140	537	2.60	100.0	7	7
70.0	200.0	31 14.6	131 58.8	AX	62 10 28	0236	141	526	2.68	100.0	73	52
73.0	53.0	35 31.5	121 28.5	AX	62 10 09	2049	142	506	2.81	100.0	16	4
73.0	60.0	35 17.8	121 57.5	AX	62 10 10	0038	138	489	2.83	100.0	14	15
77.0	51.0	35 02.2	120 55.8	AX	62 10 10	1521	141	474	2.98	100.0	11	18
77.0	55.0	34 54.1	121 13.2	AX	62 10 10	1216	136	498	2.73	100.0	17	19
77.0	57.0	34 49.0	121 18.6	AX	62 10 10	0951	137	480	2.85	100.0	15	4
80.0	52.0	34 25.1	120 35.9	AX	62 10 10	2036	138	608	2.28	100.0	43	16
80.0	60.0	34 08.8	121 09.0	AX	62 10 11	0346	141	366	3.85	100.0	21	16
80.0	65.0	33 59.0	121 28.5	AX	62 10 11	0641	125	514	2.43	100.0	4	5
80.0	70.0	33 50.0	121 54.0	AX	62 10 11	1126	135	486	2.78	100.0	3	9
80.0	80.0	33 29.0	122 30.0	AX	62 10 11	1836	143	484	2.95	100.0	5	1
80.0	90.0	33 10.5	123 11.5	AX	62 10 12	0041	139	520	2.67	100.0	20	3
80.0	100.0	32 54.7	123 55.8	AX	62 10 12	0641	141	507	2.79	100.0	3	9
80.0	120.0	32 11.0	125 11.0	AX	62 10 12	1611	157	432	3.63	100.0	6	4
80.0	200.0	29 29.2	130 36.0	AX	62 10 28	1536	136	516	2.64	100.0	12	8
82.0	47.0	34 15.0	119 58.0	BD	62 10 10	0901	141	514	2.65	100.0	37	306
83.0	40.0	34 14.0	119 22.0	BD	62 10 10	0520	16	70	2.20	100.0	7	865
83.0	43.0	34 08.0	119 34.0	BD	62 10 10	0651	140	564	2.48	100.0	134	286
83.0	51.0	33 52.0	120 08.5	BD	62 10 10	1242	107	407	2.61	100.0	9	39
83.0	55.0	33 44.0	120 24.5	BD	62 10 10	1451	137	529	2.60	100.0	14	7
83.0	60.0	33 34.0	120 45.0	BD	62 10 10	1731	132	546	2.43	100.0	2	3
83.0	65.0	33 24.0	121 06.0	BD	62 10 10	2006	138	489	2.82	100.0	14	7
83.0	70.0	33 16.0	121 27.0	BD	62 10 10	2236	133	510	2.61	100.0	9	8
83.0	80.0	32 56.5	122 14.0	BD	62 10 11	0351	145	542	2.67	100.0	12	2
83.0	90.0	32 34.0	122 48.0	BD	62 10 11	0746	139	472	2.95	100.0	5	10

TABLE 1. (cont.)

## CalCOFI Cruise 6210

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
87.0	35.0	33 50.0	118 37.5	BD	62 10 12	1401	142	454	3.14	100.0	7	5
87.0	40.0	33 40.0	118 58.5	BD	62 10 12	1141	140	667	2.09	100.0	9	54
87.0	45.0	33 30.0	119 19.0	BD	62 10 12	0921	142	477	2.98	100.0	26	18
87.0	50.0	33 20.0	119 39.5	BD	62 10 12	0658	63	246	2.57	100.0	32	58
87.0	55.0	33 10.0	120 00.0	BD	62 10 12	0431	139	507	2.73	100.0	38	4
87.0	60.0	33 00.0	120 21.5	BD	62 10 12	0211	137	540	2.54	100.0	27	4
87.0	65.0	32 49.5	120 41.5	BD	62 10 12	0006	128	507	2.53	100.0	23	7
87.0	70.0	32 39.5	121 02.0	BD	62 10 11	2131	136	555	2.46	100.0	6	1
87.0	80.0	32 19.5	121 43.0	BD	62 10 11	1651	140	514	2.73	100.0	3	11
87.0	90.0	31 59.0	122 24.0	BD	62 10 11	1221	137	557	2.46	100.0	3	16
90.0	28.0	33 28.5	117 46.9	AX	62 11 02	0236	130	514	2.52	100.0	68	10
90.0	32.0	33 21.1	118 01.6	AX	62 11 01	2341	139	497	2.80	25.0	5	7
90.0	37.0	33 11.0	118 22.5	AX	62 11 01	1951	141	499	2.82	50.0	6	73
90.0	45.0	32 55.0	118 55.7	AX	62 11 01	1556	140	500	2.81	100.0	5	143
90.0	53.0	32 39.0	119 29.0	AX	62 11 01	0911	140	513	2.72	100.0	2	28
90.0	60.0	32 26.0	119 58.0	AX	62 11 01	0131	142	512	2.77	100.0	21	6
90.0	65.0	32 16.0	120 19.0	AX	62 10 31	2031	143	514	2.78	100.0	21	4
90.0	70.0	32 05.0	120 39.0	AX	62 10 31	1807	143	510	2.80	100.0	5	1
90.0	80.0	31 44.0	121 20.0	AX	62 10 31	1256	141	500	2.81	100.0	5	18
90.0	90.0	31 25.8	121 58.0	AX	62 10 31	0831	140	516	2.71	100.0	1	2
90.0	100.0	31 06.2	122 39.2	AX	62 10 31	0331	142	500	2.84	100.0	21	27
90.0	120.0	30 27.0	124 01.0	AX	62 10 30	1831	146	506	2.90	100.0	15	19
90.0	140.0	29 44.6	125 20.3	AX	62 10 30	0920	143	549	2.60	100.0	17	6
90.0	160.0	29 02.9	126 38.0	AX	62 10 30	0036	141	510	2.76	100.0	27	11
90.0	180.0	28 26.5	127 58.6	AX	62 10 29	1626	140	529	2.64	100.0	18	10
90.0	200.0	27 40.5	129 24.5	AX	62 10 29	0521	141	520	2.71	100.0	29	12
93.0	28.0	32 54.7	117 21.8	BD	62 10 13	0406	138	509	2.70	100.0	127	83
93.0	30.0	32 50.5	117 31.0	BD	62 10 13	0211	141	533	2.65	100.0	92	18
93.0	35.0	32 40.5	117 51.5	BD	62 10 12	2241	136	517	2.63	100.0	32	3
93.0	40.0	32 30.0	118 11.5	BD	62 10 13	1246	143	483	2.96	100.0	5	33
93.0	45.0	32 20.0	118 33.0	BD	62 10 13	1606	137	519	2.63	100.0	10	6
93.0	50.0	32 10.0	118 53.5	BD	62 10 13	1846	139	507	2.73	100.0	36	4
93.0	55.0	32 00.0	119 13.5	BD	62 10 13	2206	136	519	2.63	100.0	39	3
93.0	60.0	31 50.0	119 34.0	BD	62 10 14	0031	141	509	2.76	100.0	20	8
93.0	65.0	31 40.0	119 53.5	BD	62 10 14	0416	143	502	2.84	100.0	7	2
93.0	70.0	31 30.0	120 15.0	BD	62 10 14	0651	138	525	2.63	100.0	7	3
93.0	80.0	31 10.0	120 59.0	BD	62 10 14	1205	143	496	2.88	100.0	12	20
93.0	90.0	30 50.0	121 34.5	BD	62 10 14	1646	137	537	2.54	100.0	22	6
93.0	100.0	30 30.5	122 14.0	BD	62 10 14	2226	141	490	2.87	100.0	39	23
97.0	30.0	32 15.5	117 08.5	BD	62 10 16	1319	33	165	2.01	100.0	46	174
97.0	35.0	32 11.5	117 16.5	BD	62 10 16	1226	137	491	2.78	100.0	21	26
97.0	32.0	32 05.5	117 29.0	BD	62 10 16	1006	138	461	2.98	100.0	10	0
97.0	45.0	31 48.0	118 17.0	BD	62 10 16	0410	141	499	2.82	100.0	52	7
97.0	50.0	31 38.0	118 35.5	BD	62 10 16	0145	142	508	2.79	100.0	12	25
97.0	55.0	31 28.0	118 54.0	BD	62 10 15	2311	141	497	2.84	100.0	16	5

TABLE 1. (cont.)

## CalCOFI Cruise 6210

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
97.0	60.0	31 18.0	119 12.5	BD	62 10 15	2036	132	530	2.49	100.0	12	10
97.0	65.0	31 08.0	119 32.0	BD	62 10 15	1756	137	536	2.56	100.0	5	25
97.0	70.0	30 57.5	119 50.5	BD	62 10 15	1536	138	521	2.66	100.0	1	4
97.0	80.0	30 38.0	120 26.0	BD	62 10 15	1041	142	496	2.86	100.0	6	10
97.0	90.0	30 15.5	121 10.5	BD	62 10 15	0546	139	531	2.62	100.0	65	45
100.0	30.0	31 40.5	116 46.5	AX	62 11 03	2006	144	446	3.23	100.0	21	35
100.0	35.0	31 30.7	117 06.8	AX	62 11 03	2351	142	497	2.85	100.0	18	2
100.0	40.0	31 21.4	117 26.8	AX	62 11 04	0321	143	475	3.01	100.0	13	1
100.0	45.0	31 10.0	117 47.0	AX	62 11 04	0551	143	527	2.72	100.0	4	17
100.0	50.0	31 00.0	118 07.0	AX	62 11 04	0941	142	487	2.92	100.0	7	0
100.0	55.0	30 50.5	118 27.5	AX	62 11 04	1156	133	539	2.48	100.0	2	2
100.0	60.0	30 40.2	118 47.5	AX	62 11 04	1456	141	511	2.73	100.0	2	7
100.0	65.0	30 30.0	119 08.0	AX	62 11 04	1716	145	502	2.90	100.0	17	7
100.0	70.0	30 18.2	119 29.5	AX	62 11 04	2036	143	526	2.72	100.0	20	16
100.0	80.0	29 56.3	120 10.0	AX	62 11 05	0141	140	515	2.72	100.0	31	19
100.0	90.0	29 34.2	120 52.0	AX	62 11 05	0706	143	506	2.82	100.0	11	10
100.0	100.0	29 18.0	121 27.0	AX	62 11 05	1156	133	539	2.47	100.0	36	35
100.0	120.0	28 40.0	122 46.0	AX	62 11 05	2016	143	504	2.84	100.0	19	11
103.0	30.0	31 05.0	116 25.0	BD	62 10 19	0120	48	202	2.39	100.0	37	28
103.0	35.0	30 55.0	116 45.0	BD	62 10 19	0336	138	498	2.78	100.0	46	5
103.0	40.0	30 45.0	117 05.5	BD	62 10 19	0546	139	511	2.73	100.0	32	0
103.0	45.0	30 36.5	117 25.0	BD	62 10 19	0801	138	447	3.09	100.0	12	0
103.0	50.0	30 26.0	117 44.5	BD	62 10 19	1020	134	392	3.42	100.0	14	38
103.0	55.0	30 17.0	118 01.0	BD	62 10 19	1245	138	466	2.96	100.0	27	2
103.0	60.0	30 07.5	118 22.0	BD	62 10 19	1511	142	486	2.92	100.0	20	2
103.0	65.0	29 54.0	118 41.0	BD	62 10 19	1751	138	515	2.67	100.0	226	9
103.0	70.0	29 44.5	119 03.0	BD	62 10 19	2016	137	512	2.69	100.0	230	156
103.0	80.0	29 26.5	119 44.0	BD	62 10 20	0030	142	516	2.75	100.0	908	163
103.0	90.0	29 07.0	120 23.5	BD	62 10 20	0456	140	525	2.66	100.0	98	56
107.0	32.0	30 25.8	116 11.0	BD	62 10 21	1226	140	484	2.88	100.0	29	2
107.0	35.0	30 20.0	116 22.5	BD	62 10 21	1106	140	492	2.85	100.0	24	4
107.0	40.0	30 10.0	116 43.0	BD	62 10 21	0836	140	487	2.88	100.0	47	0
107.0	45.0	30 00.0	117 03.0	BD	62 10 21	0615	142	504	2.81	100.0	25	2
107.0	50.0	29 49.5	117 23.5	BD	62 10 21	0351	139	517	2.68	100.0	11	4
107.0	55.0	29 39.5	117 43.5	BD	62 10 21	0121	141	477	2.96	100.0	33	126
107.0	60.0	29 31.0	118 01.5	BD	62 10 21	2256	140	502	2.79	100.0	117	28
107.0	65.0	29 21.0	118 21.0	BD	62 10 20	2031	129	523	2.47	100.0	407	128
107.0	70.0	29 11.0	118 41.0	BD	62 10 20	1810	142	497	2.85	100.0	362	59
107.0	80.0	28 55.0	119 18.0	BD	62 10 20	1331	141	511	2.77	100.0	32	37
107.0	90.0	28 32.0	119 59.0	BD	62 11 08	0906	139	518	2.68	100.0	109	61
110.0	32.0	29 52.0	115 48.3	AX	62 11 08	1020	14	90	1.54	100.0	8	49
110.0	35.0	29 46.0	116 00.0	AX	62 11 08	0812	138	513	2.69	100.0	10	2
110.0	40.0	29 36.3	116 19.3	AX	62 11 08	0456	136	524	2.60	100.0	23	5
110.0	45.0	29 26.5	116 39.5	AX	62 11 08	0146	140	529	2.65	100.0	110	3
110.0	50.0	29 16.5	116 58.0	AX	62 11 07	2310	142	551	2.58	100.0	35	0



TABLE 1. (cont.)

## CalCOFI Cruise 6210

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
110.0	55.0	29 06.5	117 19.0	AX	62 11 07	1941	132	564	2.35	100.0	50	10
110.0	60.0	28 56.5	117 38.5	AX	62 11 07	1726	134	566	2.37	100.0	14	90
110.0	65.0	28 47.0	117 58.0	AX	62 11 07	1411	136	585	2.33	100.0	6	20
110.0	70.0	28 36.5	118 17.5	AX	62 11 07	1146	142	556	2.55	100.0	0	45
110.0	80.0	28 16.9	118 58.0	AX	62 11 07	0516	143	514	2.78	100.0	216	50
110.0	90.0	27 56.5	119 37.2	AX	62 11 07	0001	143	491	2.91	100.0	218	51
110.0	100.0	27 35.5	120 25.0	AX	62 11 07	1716	141	525	2.68	100.0	23	854
110.0	120.0	26 54.0	121 42.5	AX	62 11 06	0856	142	496	2.86	100.0	16	6
113.0	30.0	29 22.0	115 18.0	BD	62 10 21	2044	34	150	2.23	100.0	11	60
113.0	35.0	29 11.5	115 38.0	BD	62 10 21	2241	135	499	2.70	100.0	41	4
113.0	40.0	29 02.0	115 57.0	BD	62 10 22	0100	139	492	2.82	100.0	84	1
113.0	45.0	28 52.0	116 18.0	BD	62 10 22	0315	143	475	3.01	100.0	31	0
113.0	50.0	28 40.0	116 36.0	BD	62 10 22	0536	130	528	2.47	100.0	40	8
113.0	55.0	28 31.0	116 59.0	BD	62 10 22	0806	136	505	2.68	100.0	79	2
113.0	60.0	28 22.0	117 16.5	BD	62 10 22	1001	137	516	2.66	100.0	71	2
113.0	65.0	28 12.0	117 36.0	BD	62 10 22	1216	138	527	2.62	100.0	35	9
113.0	70.0	28 02.0	117 55.0	BD	62 10 22	1440	141	499	2.83	100.0	35	12
113.0	80.0	27 42.0	118 33.5	BD	62 10 22	1846	140	500	2.79	100.0	260	25
113.0	90.0	27 22.0	119 12.0	BD	62 10 22	2301	137	518	2.65	100.0	127	62
115.0	35.0	28 54.2	115 27.0	AX	62 11 17	1751	144	483	2.99	100.0	14	2
117.0	26.0	28 56.0	114 41.5	BD	62 10 24	1200	61	297	2.04	100.0	20	85
117.0	30.0	28 48.0	114 56.5	BD	62 10 24	1012	84	350	2.39	100.0	9	426
117.0	35.0	28 38.0	115 16.0	BD	62 10 24	0731	139	494	2.82	100.0	9	41
117.0	40.0	28 28.0	115 35.5	BD	62 10 24	0306	138	515	2.67	100.0	59	6
117.0	45.0	28 18.0	115 56.0	BD	62 10 24	0031	139	485	2.86	100.0	20	4
117.0	50.0	28 08.0	116 15.0	BD	62 10 23	2146	139	466	2.98	100.0	21	88
117.0	55.0	27 57.0	116 34.5	BD	62 10 23	1915	139	493	2.83	100.0	29	6
117.0	60.0	27 48.5	116 54.0	BD	62 10 23	1646	142	492	2.89	100.0	4	11
117.0	65.0	27 37.5	117 13.5	BD	62 10 23	1421	142	497	2.85	100.0	7	12
117.0	70.0	27 28.0	117 32.5	BD	62 10 23	1206	143	513	2.79	100.0	3	19
117.0	80.0	27 05.0	118 08.5	BD	62 10 23	0736	140	511	2.74	100.0	18	41
117.0	90.0	26 47.5	118 47.5	BD	62 10 23	0311	144	489	2.95	100.0	127	66
118.0	39.0	28 18.5	115 23.7	BD	62 10 24	0451	141	491	2.87	100.0	81	41
119.0	33.0	28 19.0	114 53.0	AX	62 11 17	1248	70	270	2.59	100.0	37	18
120.0	25.0	28 22.5	114 15.0	BD	62 10 24	1611	47	212	2.23	100.0	2	80
120.0	30.0	28 13.0	114 34.0	BD	62 10 24	1827	83	327	2.53	100.0	50	175
120.0	35.0	28 03.0	114 54.0	BD	62 10 24	2101	56	428	1.30	100.0	128	1097
120.0	40.0	27 56.5	115 14.0	BD	62 10 24	2309	25	133	1.92	100.0	102	247
120.0	45.0	27 43.2	115 33.5	AX	62 11 10	0101	139	542	2.57	100.0	9	18
120.0	50.0	27 31.5	115 55.5	AX	62 11 10	0356	140	533	2.62	100.0	2	1
120.0	55.0	27 19.5	116 18.0	AX	62 11 10	0611	137	537	2.56	100.0	0	0
120.0	60.0	27 08.5	116 39.5	AX	62 11 10	0906	142	535	2.66	100.0	7	1
120.0	65.0	26 58.0	116 59.0	AX	62 11 10	1126	137	517	2.64	100.0	7	21
120.0	70.0	26 47.5	117 20.0	AX	62 11 10	1441	138	531	2.60	100.0	0	74
120.0	80.0	26 31.5	117 48.0	AX	62 11 10	1826	140	531	2.64	100.0	17	21



TABLE 1. (cont.)

CalCOFI Cruise 6210												
Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
120.0	90.0	26 08.5	118 32.0	AX	62 11 10	2346	136	518	2.62	100.0	24	9
120.0	100.0	25 52.0	119 05.0	AX	62 11 11	0406	138	501	2.75	100.0	14	8
120.0	120.0	25 12.7	120 22.5	AX	62 11 11	1206	139	514	2.70	100.0	15	20
123.0	37.0	27 24.0	114 40.0	BD	62 10 25	0430	67	304	2.21	100.0	111	296
123.0	42.0	27 14.0	114 59.0	BD	62 10 25	0700	140	515	2.72	100.0	6	15
123.0	45.0	27 08.8	115 11.0	BD	62 10 25	0831	139	486	2.85	100.0	5	5
123.0	50.0	26 58.0	115 30.5	BD	62 10 25	1101	140	491	2.85	100.0	10	5
123.0	55.0	26 47.5	115 50.0	BD	62 10 25	1326	135	532	2.54	100.0	3	2
123.0	60.0	26 40.0	116 14.0	BD	62 10 25	1551	137	503	2.72	100.0	3	3
123.0	65.0	26 30.0	116 29.0	BD	62 10 25	1800	137	517	2.64	100.0	12	3
123.0	70.0	26 19.0	116 47.0	BD	62 10 25	2011	139	486	2.85	100.0	20	8
123.0	80.0	25 59.0	117 26.0	BD	62 10 26	0026	135	518	2.62	100.0	30	9
127.0	34.0	26 55.5	114 06.0	BD	62 10 27	0250	72	273	2.62	100.0	14	361
127.0	40.0	26 45.5	114 29.0	BD	62 10 27	0000	143	501	2.85	100.0	15	7
127.0	45.0	26 33.0	114 48.5	BD	62 10 26	2131	139	502	2.76	100.0	22	12
127.0	50.0	26 23.0	115 08.0	BD	62 10 26	1956	138	506	2.73	100.0	3	74
127.0	55.0	26 12.5	115 30.0	BD	62 10 26	1611	135	524	2.57	100.0	0	6
127.0	60.0	26 02.0	115 50.0	BD	62 10 26	1326	138	524	2.63	100.0	10	4
127.0	65.0	25 53.0	116 06.0	BD	62 10 26	1101	140	511	2.74	100.0	15	1
127.0	70.0	25 44.0	116 24.5	BD	62 10 26	0836	137	523	2.62	100.0	13	8
127.0	80.0	25 26.0	117 01.0	BD	62 10 26	0426	135	532	2.53	100.0	34	37
130.0	30.0	26 30.0	113 30.0	AX	62 11 13	2043	72	250	2.89	100.0	288	207
130.0	35.0	26 20.5	113 49.0	AX	62 11 13	1746	144	507	2.84	100.0	37	51
130.0	40.0	26 09.0	114 07.2	AX	62 11 13	1526	138	556	2.49	100.0	2	258
130.0	45.0	25 57.6	114 25.8	AX	62 11 13	1216	137	543	2.53	100.0	1	38
130.0	50.0	25 50.5	114 46.0	AX	62 11 13	1001	140	517	2.71	100.0	2	157
130.0	55.0	25 37.0	115 03.5	AX	62 11 13	0646	143	518	2.77	100.0	2	18
130.0	60.0	25 25.0	115 26.5	AX	62 11 13	0356	142	539	2.63	100.0	31	146
130.0	70.0	25 08.0	116 03.5	AX	62 11 12	2311	143	539	2.80	100.0	14	9
130.0	80.0	24 47.0	116 38.0	AX	62 11 12	1821	142	538	2.65	100.0	24	42
130.0	90.0	24 29.3	117 17.0	AX	62 11 12	1251	141	533	2.64	100.0	23	3
130.0	100.0	24 17.0	118 03.0	AX	62 11 12	0751	143	547	2.61	100.0	16	4
133.0	25.0	26 04.5	112 48.5	BD	62 10 27	1523	71	277	2.55	100.0	39	15
133.0	30.0	25 54.5	113 07.5	BD	62 10 27	1751	138	507	2.72	100.0	172	401
133.0	35.0	25 44.5	113 26.5	BD	62 10 27	1956	141	399	3.53	100.0	15	1
133.0	40.0	25 34.5	113 45.5	BD	62 10 27	2226	140	460	3.03	100.0	24	122
133.0	45.0	25 24.5	114 05.0	BD	62 10 28	0040	138	484	2.86	100.0	33	284
133.0	50.0	25 14.5	114 24.0	BD	62 10 28	0305	137	493	2.78	100.0	25	8
133.0	55.0	25 02.0	114 45.0	BD	62 10 28	0531	141	468	3.01	100.0	22	9
133.0	60.0	24 54.0	115 02.0	BD	62 10 28	0741	140	472	2.97	100.0	0	38
133.0	65.0	24 44.5	115 20.5	BD	62 10 28	1021	139	495	2.81	100.0	3	169
133.0	70.0	24 34.5	115 39.0	BD	62 10 28	1221	137	518	2.64	100.0	7	26
133.0	80.0	24 14.5	116 17.0	BD	62 10 28	1700	138	507	2.71	100.0	20	15
137.0	23.0	25 36.5	112 27.0	AX	62 11 14	0439	53	172	3.08	100.0	16	17
											8	160

TABLE 1. (cont.)

CalCOFI Cruise 6210												
Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
137.0	30.0	25 24.4	112 48.5	AX	62 11 14	0726	142	528	2.70	100.0	4	4
137.0	35.0	25 09.0	113 06.2	AX	62 11 14	1011	143	485	2.95	100.0	0	2
137.0	40.0	25 00.0	113 22.2	AX	62 11 14	1316	136	499	2.72	100.0	1	9
137.0	45.0	24 51.0	113 43.0	AX	62 11 14	1521	136	493	2.76	100.0	3	66
137.0	50.0	24 40.0	114 02.0	AX	62 11 14	1806	144	470	3.05	100.0	13	411
137.0	55.0	24 30.1	114 20.5	AX	62 11 14	2021	142	486	2.91	100.0	26	16
137.0	60.0	24 20.0	114 40.0	AX	62 11 14	2326	140	490	2.86	100.0	18	54
137.0	70.0	23 58.0	115 17.0	AX	62 11 15	0346	143	500	2.86	100.0	11	6
137.0	80.0	23 37.0	115 52.5	AX	62 11 15	0806	138	497	2.77	100.0	13	7
140.0	30.0	24 45.0	112 24.0	AX	62 11 16	0802	98	365	2.67	100.0	59	179
140.0	35.0	24 35.5	112 42.5	AX	62 11 16	0451	146	485	3.00	100.0	25	7
140.0	40.0	24 24.0	113 04.5	AX	62 11 16	0206	139	506	2.75	100.0	16	113
140.0	45.0	24 13.5	113 24.5	AX	62 11 15	2246	142	510	2.78	100.0	17	195
140.0	50.0	24 05.0	113 46.0	AX	62 11 15	2036	142	434	3.26	100.0	1	73

TABLE 2. Pooled occurrences of fish larvae taken during CalCOFI cruises in 1962.

Rank	Taxon	Occurrences
1	<i>Engraulis mordax</i>	454
2	<i>Triphoturus mexicanus</i>	422
3	<i>Vinciguerrria lucetia</i>	371
4	<i>Cyclothone</i> spp.	277
5	<i>Sebastes</i> spp.	273
6	<i>Protomyctophum crockeri</i>	252
7	<i>Merluccius productus</i>	228
8	<i>Leuroglossus stilbius</i>	225
9	Disintegrated fish larva	223
10	<i>Citharichthys</i> spp.	221
11	<i>Trachurus symmetricus</i>	208
12	<i>Lampanyctus ritteri</i>	204
13	<i>Stenobranchius leucopsarus</i>	179
14	<i>Bathylagus wesethi</i>	168
15	<i>Ceratoscopelus townsendi</i>	157
16	<i>Diogenichthys atlanticus</i>	155
17	Myctophidae	151
18	Unidentified fish larva	147
19	<i>Symbolophorus californiensis</i>	140
20	<i>Lampanyctus</i> spp.	139
21	<i>Diogenichthys laternatus</i>	127
22	<i>Tarletonbeania crenularis</i>	115
23	<i>Melamphaes</i> spp.	106
24	<i>Citharichthys stigmaeus</i>	97
25	<i>Lestidiops ringens</i>	80
26	<i>Tetragonurus cuvieri</i>	76
26	<i>Stomias atriventer</i>	76
28	Sternoptychidae	71
29	<i>Bathylagus ochotensis</i>	66
30	<i>Diogenichthys</i> spp.	62
31	Scopelarchidae	60
32	<i>Sardinops sagax</i>	58
32	<i>Hygophum reinhardtii</i>	58
34	<i>Diaphus</i> spp.	56
35	<i>Argentina sialis</i>	49
36	<i>Pleuronichthys verticalis</i>	47
37	<i>Lampadena urophaos</i>	45
38	<i>Idiacanthus antrostomus</i>	43
39	Sciaenidae	42
39	<i>Myctophum nitidulum</i>	42
41	Gobiidae	41
41	<i>Notoscopelus resplendens</i>	41
41	<i>Symphurus</i> spp.	41
44	<i>Icichthys lockingtoni</i>	39
45	<i>Hygophum atratum</i>	38
46	<i>Paralichthys californicus</i>	37
47	<i>Scopelogadus bispinosus</i>	34
48	<i>Scomber japonicus</i>	32

TABLE 2. (cont.)

Rank	Taxon	Occurrences
48	<i>Parophrys vetulus</i>	32
50	<i>Chilara taylori</i>	31
50	<i>Lyopsetta exilis</i>	31
52	<i>Chauliodus macouni</i>	28
53	Trachipteridae	27
54	Ceratioidei	26
55	<i>Gonichthys tenuiculus</i>	24
56	<i>Synodus</i> spp.	23
56	Trichiuridae	23
58	Chiasmodontidae	22
58	<i>Oxyjulis californica</i>	22
60	<i>Chromis punctipinnis</i>	21
60	Cottidae	21
60	Clinidae	21
63	<i>Peprilus simillimus</i>	19
63	<i>Microstoma microstoma</i>	19
65	<i>Poromitra</i> spp.	18
66	<i>Brama</i> spp.	17
67	Ophidiiformes	16
68	<i>Hippoglossina stomata</i>	15
68	<i>Nansenia crassa</i>	15
68	Gempylidae	15
71	<i>Hypsoblennius</i> spp.	14
72	<i>Notolychnus valdiviae</i>	13
72	<i>Nansenia candida</i>	13
74	<i>Seriola lalandi</i>	12
74	<i>Halichoeres</i> spp.	12
74	<i>Lampanyctus regalis</i>	12
74	<i>Notolepis risso</i>	12
78	<i>Medialuna californiensis</i>	11
78	<i>Scorpaena</i> spp.	11
78	<i>Ichthyococcus</i> spp.	11
81	<i>Ophidion scrippsae</i>	10
81	<i>Centrobranchus</i> spp.	10
81	<i>Bathophilus</i> spp.	10
81	<i>Semicossyphus pulcher</i>	10
81	<i>Scopelosaurus</i> spp.	10
81	<i>Aristostomias scintillans</i>	10
87	<i>Zaniolepis</i> spp.	9
87	<i>Prionotus</i> spp.	9
87	<i>Xystreurus liolepis</i>	9
90	Anguilliformes	8
91	<i>Howella brodiei</i>	7
91	<i>Coryphaena hippurus</i>	7
91	<i>Vinciguerrria poweriae</i>	7
91	<i>Etrumeus acuminatus</i>	7
91	<i>Bathylagus pacificus</i>	7
96	<i>Cololabis saira</i>	6
96	<i>Sphyraena argentea</i>	6



TABLE 2. (cont.)

Rank	Taxon	Occurrences
96	Serranidae	6
96	<i>Stemonosudis macrura</i>	6
96	<i>Macroramphosus gracilis</i>	6
96	Agonidae	6
96	Macrouridae	6
103	<i>Syngnathus</i> spp.	5
103	Gonostomatidae	5
103	<i>Electrona risoi</i>	5
103	<i>Diplophos taenia</i>	5
107	<i>Sudis atrox</i>	4
107	Stomiiformes	4
107	<i>Pleuronichthys decurrens</i>	4
107	<i>Tactostoma macropus</i>	4
107	<i>Loweina rara</i>	4
112	<i>Oxylebius pictus</i>	3
112	<i>Pleuronichthys</i> spp.	3
112	<i>Pleuronichthys ritteri</i>	3
112	Evermannellidae	3
112	<i>Scorpaenichthys marmoratus</i>	3
112	<i>Photonectes</i> spp.	3
112	<i>Caulolatilus princeps</i>	3
112	Paralepididae	3
112	<i>Hygophum</i> spp.	3
112	<i>Sarda chiliensis</i>	3
122	Labridae	2
122	Astronesthidae	2
122	<i>Pleuronichthys coenosus</i>	2
122	Cyclopteridae	2
122	<i>Brosmophycis marginata</i>	2
122	<i>Sebastolobus</i> spp.	2
122	<i>Scopeloberyx robustus</i>	2
122	Gerreidae	2
130	Haemulidae	1
130	<i>Psettichthys melanostictus</i>	1
130	<i>Lepidopsetta bilineata</i>	1
130	Scorpaenidae	1
130	Hexagrammidae	1
130	<i>Bathylagus</i> spp.	1
130	<i>Girella nigricans</i>	1
130	<i>Icosteus aenigmaticus</i>	1
130	<i>Physiculus</i> spp.	1
130	Carapidae	1
130	<i>Eustomias</i> spp.	1
130	Carangidae	1

TABLE 3. Pooled numbers of fish larvae taken during CalCOFI cruises in 1962. Counts are adjusted for percent of sample sorted and standard haul factor (see text).

Rank	Taxon	Count
1	<i>Engraulis mordax</i>	212500
2	<i>Vinciguerrria lucetia</i>	25960
3	<i>Merluccius productus</i>	19635
4	<i>Triphoturus mexicanus</i>	14783
5	<i>Leuroglossus stilbius</i>	13825
6	<i>Sebastes</i> spp.	11983
7	<i>Trachurus symmetricus</i>	5907
8	<i>Citharichthys</i> spp.	5391
9	<i>Stenobranchius leucopsarus</i>	4647
10	<i>Cyclothone</i> spp.	3322
11	<i>Ceratoscopelus townsendi</i>	2651
12	<i>Diogenichthys laternatus</i>	2262
13	<i>Sardinops sagax</i>	2247
14	<i>Bathylagus wesethi</i>	1990
15	<i>Scomber japonicus</i>	1462
16	<i>Lampanyctus ritteri</i>	1378
17	Disintegrated fish larva	1321
18	<i>Diogenichthys atlanticus</i>	1208
19	<i>Protomyctophum crockeri</i>	1194
20	<i>Symbolophorus californiensis</i>	1157
21	<i>Lampanyctus</i> spp.	1096
22	<i>Tarletonbeania crenularis</i>	1001
23	Unidentified fish larva	992
24	Myctophidae	843
25	Sciaenidae	698
26	<i>Citharichthys stigmaeus</i>	615
27	<i>Symphurus</i> spp.	552
28	<i>Bathylagus ochotensis</i>	455
29	<i>Melamphaes</i> spp.	452
30	<i>Diaphus</i> spp.	406
31	<i>Stomias atriventer</i>	395
32	Clinidae	358
33	<i>Tetragonurus cuvieri</i>	335
34	<i>Hygophum reinhardtii</i>	334
35	<i>Diogenichthys</i> spp.	324
36	<i>Lestidiops ringens</i>	306
37	<i>Argentina sialis</i>	295
38	<i>Lampadena urophaos</i>	292
39	Sternoptychidae	287
40	<i>Chromis punctipinnis</i>	265
41	<i>Parophrys vetulus</i>	262
42	<i>Notoscopelus resplendens</i>	258
43	<i>Icichthys lockingtoni</i>	244
44	<i>Lyopsetta exilis</i>	241
45	Scopelarchidae	233
46	<i>Idiacanthus antrostomus</i>	224
47	<i>Synodus</i> spp.	204

TABLE 3. (cont.)

Rank	Taxon	Count
47	<i>Hygophum atratum</i>	204
49	<i>Pleuronichthys verticalis</i>	202
50	<i>Paralichthys californicus</i>	188
51	Ophidiiformes	181
52	<i>Myctophum nitidulum</i>	162
53	Trichiuridae	160
54	Gobiidae	146
55	<i>Seriola lalandi</i>	145
56	<i>Ophidion scrippsae</i>	139
57	<i>Gonichthys tenuiculus</i>	138
58	<i>Notolychnus valdiviae</i>	106
59	Ceratioidei	102
59	<i>Oxyjulis californica</i>	102
61	<i>Chauliodus macouni</i>	101
61	<i>Prionotus</i> spp.	101
63	<i>Chilara taylori</i>	97
64	<i>Scopelogadus bispinosus</i>	95
65	<i>Peprilus simillimus</i>	88
66	Cottidae	84
67	<i>Etrumeus acuminatus</i>	80
68	Trachipteridae	79
68	<i>Vinciguerrria poweriae</i>	79
70	<i>Scorpaena</i> spp.	78
71	<i>Microstoma microstoma</i>	77
72	Chiasmodontidae	72
72	<i>Sarda chiliensis</i>	72
74	<i>Hypsoblennius</i> spp.	63
75	<i>Lampanyctus regalis</i>	58
76	Gempylidae	57
77	<i>Nansenia candida</i>	55
78	<i>Brama</i> spp.	54
79	<i>Halichoeres</i> spp.	52
79	<i>Medialuna californiensis</i>	52
81	<i>Tactostoma macropus</i>	51
81	<i>Poromitra</i> spp.	51
83	<i>Sphyraena argentea</i>	50
84	<i>Hippoglossina stomata</i>	48
85	<i>Nansenia crassa</i>	46
86	<i>Notolepis risso</i>	42
87	<i>Bathophilus</i> spp.	38
88	<i>Scopelosaurus</i> spp.	36
88	Serranidae	36
90	<i>Centrobranchus</i> spp.	35
91	<i>Semicossyphus pulcher</i>	33
92	<i>Aristostomias scintillans</i>	30
93	<i>Ichthyococcus</i> spp.	29
94	<i>Xystreureys liolepis</i>	28
95	Anguilliformes	27
96	Gonostomatidae	26

TABLE 3. (cont.)

Rank	Taxon	Count
96	<i>Coryphaena hippurus</i>	26
98	<i>Zaniolepis</i> spp.	24
99	<i>Howella brodiei</i>	23
100	<i>Electrona rissoi</i>	22
101	<i>Bathylagus pacificus</i>	21
102	Stomiiformes	20
102	<i>Cololabis saira</i>	20
104	<i>Macroramphosus gracilis</i>	19
104	<i>Stemonosudis macrura</i>	19
106	Agonidae	17
106	Haemulidae	17
106	Macrouridae	17
109	<i>Pleuronichthys decurrens</i>	16
109	<i>Syngnathus</i> spp.	16
111	<i>Diplophos taenia</i>	13
112	<i>Oxylebius pictus</i>	11
112	<i>Loweina rara</i>	11
114	<i>Psettichthys melanostictus</i>	10
114	<i>Photonectes</i> spp.	10
114	Gerreidae	10
114	<i>Sudis atrox</i>	10
114	<i>Scorpaenichthys marmoratus</i>	10
119	<i>Pleuronichthys</i> spp.	9
120	Paralepididae	8
120	<i>Hygophum</i> spp.	8
120	Astronesthidae	8
120	Evermannellidae	8
124	<i>Caulolatilus princeps</i>	7
125	<i>Brosmophycis marginata</i>	6
125	<i>Pleuronichthys coenosus</i>	6
125	<i>Pleuronichthys ritteri</i>	6
125	Labridae	6
129	<i>Scopeloberyx robustus</i>	5
129	<i>Sebastolobus</i> spp.	5
129	Cyclopteridae	5
132	<i>Girella nigricans</i>	3
132	<i>Icosteus aenigmaticus</i>	3
132	<i>Physiculus</i> spp.	3
132	Carangidae	3
132	<i>Bathylagus</i> spp.	3
132	<i>Lepidopsetta bilineata</i>	3
132	Carapidae	3
132	Scorpaenidae	3
140	Hexagrammidae	2
140	<i>Eustomias</i> spp.	2
	Total	351342



TABLE 4. Numbers of fish larvae taken on stations occupied during CalCOFI cruises in 1962. Counts are adjusted for percent of sample sorted and standard haul factor (see text). Average number is given for stations occupied twice during a single month. Unoccupied stations are indicated by a dash.

*Anguilliformes*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	80.0	-	-	0.0	-	-	0.0	-	-	-	0.0	-
117.0	55.0	-	0.0	0.0	-	-	0.0	-	-	2.8	-	-
120.0	40.0	-	0.0	0.0	-	-	0.0	-	-	1.9	-	-
120.0	55.0	-	0.0	2.5	-	-	0.0	-	-	0.0	0.0	-
127.0	40.0	-	0.0	0.0	-	-	0.0	-	-	2.8	-	-
130.0	60.0	-	0.0	0.0	-	-	0.0	-	-	-	5.3	-
133.0	30.0	-	0.0	0.0	-	-	-	-	-	5.4	-	-
133.0	40.0	-	0.0	0.0	-	-	-	-	-	3.0	-	-

*Etrumeus acuminatus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
118.0	39.0	-	-	0.0	-	-	0.0	-	-	5.7	-	-
120.0	35.0	-	0.0	0.0	-	-	2.2	-	-	0.0	-	-
120.0	40.0	-	0.0	0.0	-	-	1.9	-	-	0.0	-	-
120.0	45.0	-	-	0.0	-	-	2.6	-	-	-	0.0	-
123.0	37.0	-	0.0	0.0	-	-	0.0	-	-	28.7	-	-
123.0	42.0	-	0.0	0.0	-	-	0.0	-	-	2.7	-	-
133.0	25.0	-	0.0	0.0	-	-	-	-	-	35.7	-	-

*Sardinops sagax*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	53.0	-	-	-	-	-	-	2.5	-	-	-	-
83.0	43.0	-	0.0	0.0	-	-	0.0	-	-	2.5	-	-
87.0	55.0	-	0.0	0.0	-	-	2.9	-	-	2.7	-	-
90.0	28.0	0.0	-	22.6	-	-	-	10.9	-	-	0.0	-
90.0	30.0	-	-	-	-	-	-	67.4	-	-	-	-
90.0	37.0	-	-	0.0	-	-	-	-	-	-	0.0	-
90.0	53.0	-	-	35.7	-	-	-	-	-	-	0.0	-
97.0	30.0	-	7.1	0.0	-	-	7.3	-	-	0.0	-	-
97.0	32.0	-	11.3	0.0	-	-	-	-	-	0.0	-	-
103.0	30.0	-	0.0	41.4	-	-	0.0	-	-	0.0	-	-
103.0	40.0	-	0.0	0.0	-	-	2.3	-	-	0.0	-	-
107.0	35.0	-	0.0	18.7	-	-	0.0	-	-	0.0	-	-
113.0	30.0	-	0.0	0.0	-	-	0.0	-	-	2.2	-	-
113.0	35.0	-	0.0	0.0	-	-	0.0	-	-	2.7	-	-
113.0	45.0	-	0.0	6.0	-	-	0.0	-	-	15.1	-	-
115.0	35.0	-	0.0	0.0	0.0	-	0.0	-	-	-	3.0	-
117.0	30.0	-	0.0	0.0	-	-	0.0	-	-	-	-	-
117.0	35.0	-	0.0	0.0	-	-	12.4	-	-	2.4	-	-
										2.8		

TABLE 4. (cont..)

*Sardinops sagax* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	40.0	0.0	-	0.0	-	-	307.4	-	-	10.7	-	-
118.0	39.0	3.0	-	0.0	-	-	81.3	-	-	17.2	-	-
119.0	33.0	0.0	-	-	0.0	-	39.3	-	-	-	0.0	-
120.0	25.0	0.0	-	0.0	-	-	180.6	-	-	0.0	-	-
120.0	30.0	0.0	-	0.0	-	-	132.0	-	-	0.0	-	-
120.0	35.0	0.0	-	0.0	-	-	140.8	-	-	0.0	-	-
120.0	40.0	32.6	-	21.1	-	-	63.9	-	-	0.0	-	-
120.0	45.0	0.0	-	0.0	-	-	10.5	-	-	-	0.0	-
120.0	50.0	0.0	-	5.1	-	-	0.0	-	-	-	0.0	-
123.0	37.0	230.3	-	0.0	-	-	0.0	-	-	145.9	-	-
123.0	42.0	3.1	-	0.0	-	-	5.2	-	-	2.7	-	-
123.0	70.0	0.0	-	0.0	-	-	0.0	-	-	5.7	-	-
127.0	34.0	0.0	-	0.0	-	-	6.8	-	-	7.9	-	-
127.0	40.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
127.0	45.0	0.0	-	0.0	-	-	0.0	-	-	33.1	-	-
127.0	50.0	0.0	-	0.0	-	-	22.6	-	-	5.5	-	-
130.0	30.0	0.0	-	0.0	-	-	19.0	-	-	0.0	-	-
133.0	25.0	17.0	-	2.6	-	-	0.0	-	-	56.1	57.8	-
133.0	40.0	5.2	-	0.0	-	-	-	-	-	0.0	-	-
137.0	23.0	268.5	-	0.0	-	-	-	-	-	-	0.0	-
137.0	30.0	16.3	-	0.0	-	-	-	-	-	-	0.0	-
137.0	40.0	2.7	-	0.0	-	-	-	-	-	-	0.0	-

*Engraulis mordax*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	52.0	-	0.0	-	-	-	-	-	-	0.0	-	-
60.0	55.0	-	0.0	-	-	-	-	-	-	2.7	-	-
60.0	60.0	-	2.9	-	-	-	-	-	-	0.0	-	-
63.0	52.0	-	8.9	-	-	-	-	-	-	2.8	-	-
63.0	55.0	-	30.6	-	-	-	-	-	-	8.6	-	-
63.0	60.0	-	88.6	-	-	-	-	-	-	16.6	-	-
67.0	50.0	-	187.0	-	-	-	-	-	-	0.0	-	-
67.0	55.0	-	31.3	-	-	-	-	-	-	-	-	-
67.0	60.0	-	11.5	-	-	-	-	-	-	-	-	-
70.0	53.0	-	1460.3	-	-	-	-	-	-	30.5	-	-
70.0	60.0	-	22.8	-	-	-	-	-	-	-	-	-
70.0	70.0	-	0.0	-	-	-	-	-	-	2.8	-	-
70.0	90.0	-	0.0	-	-	-	-	-	-	2.6	-	-
73.0	53.0	-	0.0	-	-	-	-	-	-	2.8	-	-
73.0	60.0	-	4.4	-	-	-	-	-	-	2.8	-	-
77.0	51.0	-	72.5	-	-	-	-	-	-	0.0	-	-
77.0	55.0	-	0.0	-	-	-	-	-	-	2.7	-	-
77.0	57.0	-	0.0	-	-	-	-	-	-	0.0	-	-

TABLE 4. (cont.)

*Engraulis mordax* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	52.0	-	0.0	-	-	-	-	-	-	73.0	-	-
80.0	53.0	-	-	-	-	-	-	51.5	-	-	-	-
80.0	55.0	-	10.8	-	-	-	-	-	-	-	-	-
80.0	60.0	-	8.3	-	-	-	-	8.0	-	7.7	-	-
80.0	65.0	-	30.1	-	-	-	-	-	-	0.0	-	-
80.0	70.0	-	5.6	-	-	-	-	0.0	-	0.0	-	-
80.0	80.0	-	132.7	-	-	-	-	0.0	-	0.0	-	-
80.0	90.0	-	74.8	-	-	-	-	0.0	-	0.0	-	-
82.0	47.0	13.2	-	90.6	-	-	232.5	-	-	23.9	-	-
83.0	40.0	0.0	-	5.6	-	-	44.6	-	-	13.2	-	-
83.0	43.0	2.7	-	758.3	-	-	356.4	-	-	101.7	-	-
83.0	51.0	39.5	-	615.9	-	-	118.2	-	-	2.6	-	-
83.0	55.0	8.0	-	187.5	-	-	10.9	-	-	0.0	-	-
83.0	60.0	0.0	-	325.9	-	-	5.5	-	-	0.0	-	-
83.0	65.0	0.0	-	241.4	-	-	22.3	-	-	0.0	-	-
83.0	70.0	0.0	-	95.7	-	-	22.4	-	-	0.0	-	-
83.0	80.0	0.0	-	39.0	-	-	7.6	-	-	0.0	-	-
83.0	90.0	0.0	-	189.4	-	-	2.7	-	-	0.0	-	-
87.0	35.0	19.3	-	1059.2	-	-	217.1	-	-	6.3	-	-
87.0	40.0	108.4	-	1138.8	-	-	610.6	-	-	4.2	-	-
87.0	45.0	84.0	-	244.9	-	-	320.3	-	-	11.9	-	-
87.0	50.0	10.5	-	267.7	-	-	18.0	-	-	25.7	-	-
87.0	55.0	5.7	-	558.8	-	-	44.1	-	-	30.0	-	-
87.0	60.0	0.0	-	4045.3	-	-	0.0	-	-	15.2	-	-
87.0	65.0	9.2	-	719.1	-	-	12.8	-	-	2.5	-	-
87.0	70.0	0.0	-	1545.0	-	-	0.0	-	-	4.9	-	-
87.0	80.0	0.0	-	1610.2	-	-	24.1	-	-	0.0	-	-
87.0	90.0	0.0	-	0.0	-	-	3.0	-	-	0.0	-	-
90.0	28.0	-	-	520.0	-	-	-	0.0	-	-	2.5	-
90.0	30.0	-	-	-	-	-	-	23.4	-	-	-	-
90.0	32.0	-	-	2916.1	-	-	-	-	-	0.0	-	-
90.0	37.0	-	-	4108.9	-	-	-	-	-	0.0	-	-
90.0	40.0	-	-	-	-	-	-	302.1	-	-	-	-
90.0	45.0	-	-	614.0	-	-	-	-	-	-	2.8	-
90.0	53.0	-	-	1647.3	-	-	-	0.0	-	-	0.0	-
90.0	60.0	-	-	195.9	-	-	-	-	-	0.0	-	-
90.0	65.0	-	-	402.8	-	-	-	0.0	-	0.0	-	-
90.0	70.0	-	-	932.9	-	-	-	0.0	-	0.0	-	-
90.0	80.0	-	-	100.6	-	-	-	2.6	-	0.0	-	-
90.0	100.0	-	-	0.0	-	-	-	2.5	-	0.0	-	-
90.0	140.0	-	-	0.0	-	-	-	-	-	137.7	-	-
93.0	28.0	511.5	-	3883.7	-	-	355.6	-	-	84.8	-	-
93.0	30.0	471.4	-	2011.9	-	-	1069.5	-	-	0.0	-	-
93.0	35.0	485.0	-	2586.6	-	-	388.4	-	-	0.0	-	-
93.0	40.0	892.8	-	592.0	-	-	593.9	-	-	3.0	-	-
93.0	45.0	923.8	-	798.0	-	-	52.1	-	-	0.0	-	-

TABLE 4. (cont.)

*Engraulis mordax* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	50.0	213.7	-	888.3	-	-	15.3	-	-	0.0	-	-
93.0	55.0	96.6	-	1212.2	-	-	20.7	-	-	0.0	-	-
93.0	60.0	947.0	-	3595.7	-	-	26.0	-	-	0.0	-	-
93.0	65.0	0.0	-	1721.4	-	-	131.5	-	-	0.0	-	-
93.0	70.0	0.0	-	4389.5	-	-	10.8	-	-	0.0	-	-
93.0	80.0	0.0	-	1582.5	-	-	2.5	-	-	8.6	-	-
93.0	90.0	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
93.0	100.0	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
97.0	30.0	90.3	-	1251.8	-	-	29.0	-	-	22.1	-	-
97.0	32.0	450.0	-	194.0	-	-	-	-	-	2.8	-	-
97.0	35.0	284.8	-	618.9	-	-	0.0	-	-	0.0	-	-
97.0	40.0	225.6	-	251.1	-	-	28.9	-	-	-	-	-
97.0	45.0	2456.8	-	4289.8	-	-	12.0	-	-	16.9	-	-
97.0	50.0	601.1	-	1258.6	-	-	2.7	-	-	2.8	-	-
97.0	55.0	47.6	-	329.4	-	-	2.8	-	-	0.0	-	-
97.0	60.0	32.4	-	257.6	-	-	0.0	-	-	0.0	-	-
97.0	65.0	0.0	-	260.1	-	-	0.0	-	-	0.0	-	-
97.0	70.0	0.0	-	19.0	-	-	0.0	-	-	0.0	-	-
97.0	80.0	0.0	-	9.0	-	-	0.0	-	-	0.0	-	-
97.0	90.0	0.0	-	21.4	-	-	0.0	-	-	0.0	-	-
100.0	30.0	-	-	2536.1	-	-	0.0	-	-	-	25.8	-
100.0	35.0	214.8	-	714.2	-	-	30.6	-	-	11.4	-	-
100.0	40.0	231.2	-	4419.5	-	-	0.0	-	-	0.0	-	-
100.0	45.0	49.5	-	2790.7	-	-	0.0	-	-	0.0	-	-
100.0	50.0	301.3	-	1917.0	-	-	0.0	-	-	0.0	-	-
100.0	55.0	0.0	-	13.8	-	-	0.0	-	-	0.0	-	-
100.0	65.0	0.0	-	8.6	-	-	0.0	-	-	0.0	-	-
100.0	70.0	0.0	-	195.8	-	-	0.0	-	-	0.0	-	-
100.0	80.0	4.6	-	21.0	-	-	0.0	-	-	0.0	-	-
100.0	90.0	0.0	-	104.0	-	-	0.0	-	-	0.0	-	-
100.0	100.0	0.0	-	7.9	-	-	-	-	-	0.0	-	-
100.0	120.0	2.6	-	0.0	-	-	-	-	-	-	0.0	-
103.0	30.0	954.2	-	300.8	-	-	17.6	-	-	52.6	-	-
103.0	35.0	329.1	-	250.3	-	-	21.8	-	-	16.7	-	-
103.0	40.0	203.3	-	711.2	-	-	23.0	-	-	0.0	-	-
103.0	45.0	86.5	-	15.3	-	-	0.0	-	-	6.2	-	-
103.0	50.0	6.0	-	3.0	-	-	0.0	-	-	0.0	-	-
103.0	55.0	0.0	-	6.1	-	-	0.0	-	-	0.0	-	-
103.0	70.0	3.0	-	8.0	-	-	0.0	-	-	0.0	-	-
103.0	80.0	0.0	-	2.5	-	-	0.0	-	-	0.0	-	-
107.0	32.0	211.0	-	1111.7	-	-	4.1	-	-	0.0	-	-
107.0	35.0	165.1	-	817.9	-	-	0.0	-	-	0.0	-	-
107.0	40.0	146.5	-	420.5	-	-	0.0	-	-	0.0	-	-
107.0	45.0	703.6	-	102.2	-	-	0.0	-	-	2.8	-	-
107.0	50.0	31.3	-	398.7	-	-	0.0	-	-	0.0	-	-
107.0	55.0	4.9	-	2.8	-	-	2.8	-	-	0.0	-	-



TABLE 4. (cont.)

*Engraulis mordax* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	60.0	100.7	-	5.4	-	-	0.0	-	-	0.0	-	-
107.0	65.0	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0	70.0	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
110.0	32.0	-	-	622.7	-	-	6.9	-	-	-	0.0	-
110.0	33.0	156.6	-	-	-	-	-	-	-	-	-	-
110.0	35.0	52.2	-	490.8	-	-	24.6	-	-	-	2.7	-
110.0	40.0	174.6	-	246.0	-	-	0.0	-	-	-	0.0	-
110.0	45.0	343.5	-	43.8	-	-	0.0	-	-	-	0.0	-
110.0	50.0	16.9	-	219.7	-	-	0.0	-	-	-	0.0	-
110.0	60.0	2.8	-	0.0	-	-	0.0	-	-	-	0.0	-
110.0	65.0	59.4	-	9.9	-	-	11.9	-	-	-	0.0	-
110.0	70.0	0.0	-	0.0	-	-	7.3	-	-	-	0.0	-
113.0	30.0	450.1	-	101.4	-	-	2.1	-	-	0.0	-	-
113.0	35.0	159.0	-	267.1	-	-	0.0	-	-	0.0	-	-
113.0	40.0	201.6	-	24134.9	-	-	2.7	-	-	0.0	-	-
113.0	45.0	348.4	-	1510.9	-	-	5.0	-	-	12.0	-	-
113.0	50.0	0.0	-	204.3	-	-	0.0	-	-	2.5	-	-
113.0	55.0	0.0	-	9.0	-	-	0.0	-	-	0.0	-	-
113.0	60.0	141.3	-	0.0	-	-	0.0	-	-	0.0	-	-
113.0	65.0	47.9	-	6.0	-	-	0.0	-	-	0.0	-	-
113.0	70.0	33.0	-	11.8	-	-	0.0	-	-	0.0	-	-
113.0	80.0	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
113.0	90.0	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
115.0	35.0	172.2	-	-	640.0	-	0.0	-	-	-	9.0	-
117.0	26.0	63.9	-	1395.9	-	-	0.0	-	-	8.2	-	-
117.0	30.0	43.2	-	7102.2	-	-	3.5	-	-	2.4	-	-
117.0	35.0	6.1	-	619.4	-	-	42.3	-	-	2.8	-	-
117.0	40.0	1164.0	-	622.4	-	-	163.5	-	-	8.0	-	-
117.0	45.0	1606.0	-	1983.8	-	-	0.0	-	-	0.0	-	-
117.0	50.0	1549.2	-	700.3	-	-	0.0	-	-	0.0	-	-
117.0	55.0	178.4	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0	60.0	0.0	-	0.0	-	-	7.5	-	-	0.0	-	-
117.0	65.0	0.0	-	2.4	-	-	10.0	-	-	0.0	-	-
117.0	70.0	0.0	-	5.7	-	-	0.0	-	-	0.0	-	-
117.0	80.0	0.0	-	18.1	-	-	0.0	-	-	0.0	-	-
118.0	39.0	327.8	-	1354.1	-	-	189.7	-	-	37.3	-	-
119.0	33.0	29.5	-	-	879.8	-	337.4	-	-	-	93.2	-
120.0	25.0	777.8	-	1443.8	-	-	327.6	-	-	2.2	-	-
120.0	30.0	171.4	-	4005.6	-	-	158.4	-	-	98.7	-	-
120.0	35.0	513.4	-	327.0	-	-	530.2	-	-	83.2	-	-
120.0	40.0	232.6	-	910.1	-	-	5.6	-	-	119.0	-	-
120.0	45.0	996.6	-	45.8	-	-	5.3	-	-	-	0.0	-
120.0	50.0	941.1	-	1185.8	-	-	0.0	-	-	-	0.0	-
120.0	55.0	1336.7	-	144.8	-	-	0.0	-	-	-	0.0	-
120.0	60.0	0.0	-	2.5	-	-	0.0	-	-	-	0.0	-
120.0	65.0	3.1	-	20.9	-	-	0.0	-	-	-	0.0	-

TABLE 4. (cont.)

*Engraulis mordax* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	70.0	0.0	-	24.8	-	-	0.0	-	-	-	0.0	-
120.0	80.0	0.0	-	55.9	-	-	0.0	-	-	-	0.0	-
120.0	90.0	0.0	-	31.5	-	-	0.0	-	-	-	0.0	-
123.0	37.0	1567.4	-	528.7	-	-	38.9	-	-	11.1	-	-
123.0	42.0	2284.7	-	13.5	-	-	2.6	-	-	0.0	-	-
123.0	45.0	555.8	-	45.9	-	-	0.0	-	-	0.0	-	-
123.0	50.0	974.7	-	94.7	-	-	0.0	-	-	0.0	-	-
123.0	55.0	259.5	-	786.8	-	-	0.0	-	-	0.0	-	-
123.0	60.0	298.0	-	190.1	-	-	0.0	-	-	0.0	-	-
123.0	65.0	13.3	-	44.1	-	-	0.0	-	-	0.0	-	-
123.0	70.0	29.4	-	70.6	-	-	0.0	-	-	0.0	-	-
123.0	80.0	8.3	-	41.1	-	-	0.0	-	-	0.0	-	-
127.0	34.0	313.7	-	0.0	-	-	93.5	-	-	5.2	-	-
127.0	40.0	78.3	-	111.8	-	-	69.2	-	-	2.8	-	-
127.0	45.0	49.0	-	298.6	-	-	10.3	-	-	11.0	-	-
127.0	50.0	242.4	-	401.0	-	-	118.0	-	-	0.0	-	-
127.0	55.0	190.3	-	157.0	-	-	47.6	-	-	0.0	-	-
127.0	60.0	77.2	-	41.3	-	-	2.5	-	-	0.0	-	-
127.0	65.0	1364.2	-	19.4	-	-	0.0	-	-	0.0	-	-
127.0	70.0	0.0	-	9.1	-	-	0.0	-	-	0.0	-	-
127.0	80.0	0.0	-	32.3	-	-	0.0	-	-	0.0	-	-
130.0	30.0	2.7	-	4.9	-	-	22.1	-	-	0.0	-	-
130.0	35.0	2108.0	-	11.1	-	-	0.0	-	-	-	554.9	-
130.0	40.0	8809.1	-	42.6	-	-	0.0	-	-	-	0.0	-
130.0	45.0	1920.2	-	302.4	-	-	0.0	-	-	-	0.0	-
130.0	50.0	576.3	-	516.0	-	-	0.0	-	-	-	0.0	-
130.0	55.0	538.6	-	237.4	-	-	0.0	-	-	-	0.0	-
130.0	60.0	0.0	-	34.1	-	-	0.0	-	-	-	0.0	-
130.0	70.0	0.0	-	5.0	-	-	0.0	-	-	-	0.0	-
133.0	25.0	1910.6	-	303.6	-	-	-	-	-	15.3	-	-
133.0	30.0	2918.3	-	16.4	-	-	-	-	-	0.0	-	-
133.0	35.0	1904.6	-	201.8	-	-	-	-	-	0.0	-	-
133.0	40.0	723.1	-	106.9	-	-	-	-	-	0.0	-	-
133.0	45.0	168.6	-	156.6	-	-	-	-	-	0.0	-	-
133.0	50.0	31.5	-	140.1	-	-	-	-	-	0.0	-	-
133.0	55.0	13.4	-	364.5	-	-	-	-	-	0.0	-	-
133.0	60.0	0.0	-	28.2	-	-	-	-	-	0.0	-	-
133.0	65.0	0.0	-	8.6	-	-	-	-	-	0.0	-	-
133.0	70.0	0.0	-	46.2	-	-	-	-	-	0.0	-	-
137.0	23.0	5791.5	-	2.9	-	-	-	-	-	0.0	0.0	-
137.0	30.0	910.6	-	4.3	-	-	-	-	-	-	0.0	-
137.0	35.0	2095.3	-	168.1	-	-	-	-	-	-	0.0	-
137.0	40.0	21.4	-	116.8	-	-	-	-	-	-	0.0	-
137.0	45.0	0.0	-	3.0	-	-	-	-	-	-	0.0	-
137.0	50.0	0.0	-	5.3	-	-	-	-	-	-	0.0	-
137.0	50.0	0.0	-	2.8	-	-	-	-	-	-	0.0	-

TABLE 4. (cont.)

*Engraulis mordax* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	55.0	2.9	-	0.0	-	-	-	-	-	-	0.0	-
137.0	80.0	0.0	-	2.8	-	-	-	-	-	-	0.0	-
140.0	30.0	1114.6	-	19.8	-	-	-	-	-	-	5.3	-
140.0	35.0	76.5	-	147.7	-	-	-	-	-	-	0.0	-
140.0	40.0	2.6	-	190.1	-	-	-	-	-	-	0.0	-
140.0	45.0	51.9	-	5.2	-	-	-	-	-	-	2.8	-
140.0	50.0	0.0	-	12.8	-	-	-	-	-	-	0.0	-

*Argentina sialis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	53.0	2.2	0.0	-	-	-	-	-	-	0.0	-	-
77.0	51.0	2.0	0.0	-	-	-	-	-	-	0.0	-	-
80.0	52.0	2.7	0.0	-	-	-	-	-	-	0.0	-	-
82.0	47.0	0.0	-	6.0	-	-	0.0	-	-	0.0	-	-
83.0	43.0	0.0	-	36.9	-	-	0.0	-	-	0.0	-	-
83.0	51.0	0.0	-	12.0	-	-	0.0	-	-	2.6	-	-
87.0	35.0	2.8	-	0.0	-	-	0.0	-	-	0.0	-	-
87.0	40.0	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
90.0	40.0	-	-	-	-	-	-	2.4	-	-	-	-
93.0	28.0	2.9	-	0.0	-	-	0.0	-	-	2.7	-	-
93.0	30.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
93.0	35.0	0.0	-	3.0	-	-	0.0	-	-	2.6	-	-
97.0	30.0	1.8	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0	32.0	5.7	-	0.0	-	-	-	-	-	0.0	-	-
100.0	30.0	-	-	8.5	-	-	0.0	-	-	-	0.0	-
103.0	30.0	0.0	-	0.0	-	-	1.8	-	-	0.0	-	-
103.0	35.0	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
103.0	45.0	3.1	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0	35.0	0.0	-	6.2	-	-	0.0	-	-	0.0	-	-
110.0	32.0	-	-	0.0	-	-	2.3	-	-	-	0.0	-
110.0	35.0	2.9	-	0.0	-	-	0.0	-	-	-	0.0	-
110.0	65.0	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
113.0	30.0	0.0	-	0.0	-	-	2.1	-	-	0.0	-	-
113.0	35.0	0.0	-	21.5	-	-	0.0	-	-	0.0	-	-
113.0	40.0	0.0	-	18.5	-	-	0.0	-	-	0.0	-	-
115.0	35.0	0.0	-	-	0.0	-	0.0	-	-	-	3.0	-
117.0	26.0	0.0	-	2.8	-	-	2.3	-	-	0.0	-	-
117.0	30.0	0.0	-	6.8	-	-	24.4	-	-	0.0	-	-
117.0	35.0	3.0	-	5.3	-	-	0.0	-	-	0.0	-	-
117.0	40.0	0.0	-	5.5	-	-	0.0	-	-	0.0	-	-
117.0	45.0	5.8	-	0.0	-	-	0.0	-	-	0.0	-	-
118.0	39.0	17.9	-	5.5	-	-	0.0	-	-	0.0	-	-
120.0	30.0	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
120.0	35.0	0.0	-	0.0	-	-	2.2	-	-	0.0	-	-

TABLE 4. (cont.)

*Argentina sialis* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	50.0	-	2.7	15.3	-	-	0.0	-	-	-	0.0	-
120.0	55.0	-	2.5	2.5	-	-	0.0	-	-	-	0.0	-
123.0	42.0	-	0.0	2.7	-	-	2.6	-	-	0.0	-	-
123.0	50.0	-	0.0	11.8	-	-	0.0	-	-	0.0	-	-
127.0	55.0	-	0.0	0.0	-	-	2.4	-	-	0.0	-	-

*Microstoma microstoma*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	60.0	-	0.0	-	-	-	-	-	-	3.1	-	-
80.0	140.0	-	-	-	-	-	-	2.5	-	-	-	-
90.0	100.0	-	-	0.0	-	-	-	0.0	-	2.8	-	-
90.0	120.0	-	-	2.9	-	-	-	0.0	-	0.0	-	-
93.0	65.0	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
93.0	80.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
97.0	45.0	0.0	-	0.0	-	-	3.0	-	-	0.0	-	-
97.0	55.0	0.0	-	6.1	-	-	0.0	-	-	0.0	-	-
97.0	60.0	0.0	-	12.9	-	-	0.0	-	-	0.0	-	-
97.0	65.0	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
97.0	90.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
100.0	40.0	2.8	-	0.0	-	-	0.0	-	-	0.0	0.0	-
100.0	45.0	0.0	-	6.1	-	-	0.0	-	-	-	0.0	-
103.0	35.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
103.0	45.0	0.0	-	0.0	-	-	7.9	-	-	0.0	-	-
103.0	50.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
107.0	35.0	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
107.0	70.0	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
117.0	55.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-

*Nansenia candida*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	-	2.4	-	-	-	-	-	-	0.0	-	-
60.0	80.0	-	8.9	-	-	-	-	-	-	0.0	-	-
60.0	90.0	-	9.2	-	-	-	-	-	-	0.0	-	-
63.0	52.0	-	2.2	-	-	-	-	-	-	0.0	-	-
70.0	100.0	-	3.0	-	-	-	-	-	-	-	-	-
70.0	120.0	-	3.1	-	-	-	-	-	-	-	-	-
70.0	200.0	-	0.0	-	-	-	-	-	-	0.0	-	-
83.0	65.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
87.0	45.0	3.1	-	0.0	-	-	0.0	-	-	0.0	-	-
90.0	100.0	-	-	8.6	-	-	0.0	-	-	0.0	-	-
93.0	70.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
97.0	70.0	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-



TABLE 4. (cont.)

*Nansenia candida* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0 65.0	-	0.0	-	2.9	-	-	0.0	-	-	-	0.0	-

*Nansenia crassa*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0 32.0	-	-	-	0.0	-	-	2.3	-	-	-	0.0	-
113.0 45.0	-	0.0	-	3.0	-	-	0.0	-	-	3.0	-	-
113.0 55.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
120.0 45.0	-	0.0	-	2.9	-	-	0.0	-	-	-	0.0	-
120.0 55.0	-	0.0	-	2.5	-	-	0.0	-	-	-	0.0	-
120.0 60.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
120.0 70.0	-	0.0	-	2.8	-	-	0.0	-	-	-	0.0	-
123.0 60.0	-	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
127.0 45.0	-	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0 55.0	-	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
130.0 60.0	-	2.8	-	0.0	-	-	0.0	-	-	-	0.0	-
133.0 45.0	-	2.7	-	0.0	-	-	-	-	-	0.0	-	-
137.0 60.0	-	0.0	-	0.0	-	-	-	-	-	-	2.9	-
140.0 45.0	-	0.0	-	7.8	-	-	-	-	-	-	0.0	-

*Bathylagus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0 70.0	-	0.0	-	3.3	-	-	-	-	-	0.0	-	-

*Bathylagus ochotensis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 52.0	0.0	-	8.3	-	-	-	-	-	-	0.0	-	-
60.0 55.0	0.0	-	4.8	-	-	-	-	-	-	0.0	-	-
60.0 60.0	0.0	-	60.9	-	-	-	-	-	-	0.0	-	-
60.0 70.0	-	-	19.7	-	-	-	-	-	-	2.8	-	-
60.0 80.0	-	-	8.9	-	-	-	-	-	-	0.0	-	-
60.0 90.0	-	-	23.1	-	-	-	-	-	-	0.0	-	-
60.0 120.0	0.0	-	2.7	-	-	-	-	-	-	0.0	-	-
60.0 140.0	0.0	-	6.1	-	-	-	-	-	-	0.0	-	-
63.0 55.0	0.0	-	52.0	-	-	-	-	-	-	0.0	-	-
63.0 60.0	0.0	-	9.8	-	-	-	-	-	-	0.0	-	-
67.0 55.0	6.1	-	6.3	-	-	-	-	-	-	-	-	-
67.0 60.0	0.0	-	25.9	-	-	-	-	-	-	-	-	-
70.0 53.0	2.6	-	2.7	-	-	-	-	-	-	0.0	-	-
70.0 55.0	5.5	-	-	-	-	-	-	-	-	-	-	-
70.0 60.0	2.5	-	0.0	-	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

*Bathylagus ochotensis* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	70.0	0.0	4.8	-	-	-	-	-	-	0.0	-	-
70.0	80.0	2.7	5.2	-	-	-	-	-	-	0.0	-	-
70.0	100.0	2.5	0.0	-	-	-	-	-	-	-	-	-
70.0	120.0	6.7	0.0	-	-	-	-	-	-	-	-	-
73.0	53.0	0.0	3.3	-	-	-	-	-	-	0.0	-	-
73.0	60.0	0.0	6.6	-	-	-	-	-	-	2.8	-	-
77.0	51.0	0.0	2.8	-	-	-	-	-	-	0.0	-	-
77.0	55.0	0.0	2.7	-	-	-	-	-	-	0.0	-	-
77.0	57.0	0.0	3.0	-	-	-	-	-	-	0.0	-	-
80.0	52.0	-	0.0	-	-	-	-	-	-	0.0	-	-
80.0	65.0	2.5	5.5	-	-	-	-	-	-	0.0	-	-
80.0	70.0	0.0	1.9	-	-	-	-	0.0	-	0.0	-	-
80.0	80.0	1.8	2.1	-	-	-	-	0.0	-	0.0	-	-
80.0	90.0	0.0	2.8	-	-	-	-	0.0	-	0.0	-	-
82.0	47.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
83.0	65.0	17.9	-	3.0	-	-	0.0	-	-	0.0	-	-
83.0	70.0	8.1	-	0.0	-	-	0.0	-	-	0.0	-	-
83.0	80.0	2.7	-	6.0	-	-	0.0	-	-	0.0	-	-
83.0	90.0	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
87.0	40.0	2.8	-	0.0	-	-	0.0	-	-	0.0	-	-
87.0	55.0	5.7	-	2.4	-	-	0.0	-	-	0.0	-	-
87.0	60.0	12.0	-	9.2	-	-	0.0	-	-	0.0	-	-
87.0	65.0	0.0	-	3.1	-	-	2.6	-	-	0.0	-	-
87.0	70.0	0.0	-	7.1	-	-	0.0	-	-	0.0	-	-
90.0	32.0	-	-	2.6	-	-	-	-	-	-	0.0	-
90.0	37.0	-	-	2.9	-	-	-	-	-	0.0	0.0	-
90.0	60.0	-	-	3.1	-	-	-	0.0	-	0.0	0.0	-
93.0	28.0	0.0	-	5.2	-	-	0.0	-	-	0.0	-	-
93.0	30.0	0.0	-	5.8	-	-	0.0	-	-	0.0	-	-
93.0	35.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
93.0	45.0	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
93.0	70.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
97.0	30.0	1.8	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0	45.0	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
103.0	35.0	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
103.0	45.0	3.1	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0	35.0	2.6	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0	40.0	0.0	-	8.8	-	-	0.0	-	-	0.0	-	-
117.0	50.0	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-

*Bathylagus pacificus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
63.0	52.0	-	4.4	-	-	-	-	-	-	0.0	-	-
63.0	55.0	-	3.1	-	-	-	-	-	-	0.0	-	-

TABLE 4. (cont.)

*Bathylagus pacificus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
67.0 60.0	0.0	-	2.9	-	-	-	-	-	-	-	-	-
70.0 55.0	2.8	-	-	-	-	-	-	-	-	-	-	-
73.0 60.0	2.9	-	0.0	-	-	-	-	-	-	0.0	-	-
83.0 51.0	-	2.5	-	0.0	-	-	0.0	-	-	0.0	-	-
83.0 70.0	-	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-

*Bathylagus wesethi*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 90.0	-	-	0.0	-	-	-	-	-	-	2.2	-	-
80.0 100.0	0.0	-	-	-	-	-	-	3.0	-	0.0	-	-
80.0 120.0	0.0	-	2.8	-	-	-	-	0.0	-	0.0	-	-
80.0 130.0	-	-	-	-	-	-	-	5.1	-	-	-	-
80.0 140.0	-	-	-	-	-	-	-	5.0	-	-	-	-
80.0 150.0	-	-	-	-	-	-	-	5.5	-	-	-	-
83.0 80.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
83.0 90.0	-	0.0	-	0.0	-	-	2.7	-	-	3.0	-	-
87.0 90.0	-	0.0	-	17.8	-	-	0.0	-	-	0.0	-	-
90.0 80.0	0.0	-	-	10.9	-	-	-	24.1	-	2.8	-	-
90.0 90.0	0.0	-	-	38.7	-	-	-	8.2	-	0.0	-	-
90.0 100.0	3.7	-	-	11.4	-	-	-	18.5	-	0.0	-	-
90.0 110.0	-	-	-	-	-	-	-	48.8	-	-	-	-
90.0 120.0	0.0	-	-	5.9	-	-	-	0.0	-	0.0	-	-
93.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	5.3	-	-
93.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
93.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
93.0 65.0	-	0.0	-	14.3	-	-	0.0	-	-	0.0	-	-
93.0 70.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
93.0 90.0	-	5.4	-	37.0	-	-	2.7	-	-	0.0	-	-
93.0 100.0	-	2.9	-	38.4	-	-	35.3	-	-	0.0	-	-
97.0 45.0	-	0.0	-	0.0	-	-	12.0	-	-	0.0	-	-
97.0 50.0	-	0.0	-	0.0	-	-	5.4	-	-	0.0	-	-
97.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0 70.0	-	0.0	-	19.0	-	-	0.0	-	-	2.5	-	-
97.0 80.0	-	0.0	-	45.2	-	-	0.0	-	-	0.0	-	-
97.0 90.0	-	2.9	-	48.8	-	-	61.6	-	-	5.7	-	-
100.0 35.0	-	0.0	-	0.0	-	-	2.8	-	-	5.2	0.0	-
100.0 40.0	-	0.0	-	0.0	-	-	6.7	-	-	-	3.0	-
100.0 45.0	-	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
100.0 50.0	-	0.0	-	0.0	-	-	10.4	-	-	-	0.0	-
100.0 55.0	-	0.0	-	5.5	-	-	11.8	-	-	-	0.0	-
100.0 60.0	-	0.0	-	2.8	-	-	9.6	-	-	-	0.0	-
100.0 65.0	-	0.0	-	25.7	-	-	21.1	-	-	-	0.0	-
100.0 70.0	-	0.0	-	17.3	-	-	26.1	-	-	-	0.0	-
100.0 80.0	-	0.0	-	23.7	-	-	25.6	-	-	-	2.7	-

TABLE 4. (cont.)

*Bathylagus wesethi* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	90.0	0.0	-	81.5	-	-	52.8	-	-	-	0.0	-
100.0	100.0	0.0	-	36.7	-	-	-	-	-	-	0.0	-
100.0	120.0	0.0	-	0.0	-	-	-	-	-	-	2.8	-
103.0	35.0	0.0	-	20.9	-	-	0.0	-	-	0.0	-	-
103.0	40.0	0.0	-	25.2	-	-	0.0	-	-	2.7	-	-
103.0	45.0	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
103.0	65.0	0.0	-	0.0	-	-	11.0	-	-	2.7	-	-
103.0	70.0	0.0	-	13.3	-	-	10.9	-	-	5.4	-	-
103.0	80.0	0.0	-	7.5	-	-	12.2	-	-	41.3	-	-
103.0	90.0	0.0	-	-	-	-	0.0	-	-	10.6	-	-
107.0	40.0	0.0	-	26.3	-	-	0.0	-	-	2.9	-	-
107.0	45.0	0.0	-	14.2	-	-	0.0	-	-	0.0	-	-
107.0	50.0	2.6	-	34.9	-	-	0.0	-	-	0.0	-	-
107.0	55.0	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
107.0	60.0	0.0	-	8.1	-	-	0.0	-	-	0.0	-	-
107.0	65.0	0.0	-	0.0	-	-	4.9	-	-	9.9	-	-
107.0	70.0	0.0	-	2.7	-	-	0.0	-	-	22.8	-	-
107.0	90.0	0.0	-	-	-	-	8.9	-	-	2.7	-	-
110.0	35.0	0.0	-	2.9	-	-	2.7	-	-	-	0.0	-
110.0	40.0	0.0	-	20.7	-	-	0.0	-	-	-	0.0	-
110.0	45.0	0.0	-	8.2	-	-	0.0	-	-	-	2.7	-
110.0	50.0	0.0	-	36.1	-	-	3.0	-	-	-	0.0	-
110.0	55.0	0.0	-	22.2	-	-	27.6	-	-	-	0.0	-
110.0	60.0	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-
110.0	70.0	0.0	-	5.4	-	-	0.0	-	-	-	0.0	-
110.0	80.0	0.0	-	2.5	-	-	30.8	-	-	-	16.7	-
110.0	90.0	0.0	-	2.9	-	-	0.0	-	-	-	0.0	-
110.0	100.0	0.0	-	5.5	-	-	-	-	-	-	0.0	-
113.0	40.0	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
113.0	45.0	0.0	-	8.9	-	-	5.0	-	-	0.0	-	-
113.0	50.0	0.0	-	6.1	-	-	0.0	-	-	0.0	-	-
113.0	55.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
113.0	60.0	0.0	-	11.4	-	-	0.0	-	-	0.0	-	-
113.0	65.0	0.0	-	6.0	-	-	11.1	-	-	0.0	-	-
113.0	70.0	0.0	-	14.8	-	-	2.5	-	-	8.5	-	-
113.0	80.0	2.7	-	14.3	-	-	20.4	-	-	0.0	-	-
113.0	90.0	14.6	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0	40.0	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
117.0	45.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
117.0	50.0	0.0	-	2.9	-	-	8.0	-	-	0.0	-	-
117.0	55.0	0.0	-	17.0	-	-	2.7	-	-	0.0	-	-
117.0	60.0	3.0	-	4.8	-	-	0.0	-	-	0.0	-	-
117.0	65.0	8.8	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0	70.0	0.0	-	0.0	-	-	7.5	-	-	0.0	-	-
117.0	80.0	3.0	-	4.5	-	-	2.7	-	-	2.7	-	-
117.0	90.0	0.0	-	2.9	-	-	19.1	-	-	3.0	-	-



TABLE 4. (cont.)

*Bathylagus wesethi* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	40.0	0.0	-	0.0	-	-	1.9	-	-	0.0	-	-
120.0	50.0	0.0	-	0.0	-	-	26.7	-	-	-	0.0	-
120.0	55.0	0.0	-	5.1	-	-	48.1	-	-	-	0.0	-
120.0	60.0	0.0	-	0.0	-	-	31.5	-	-	-	0.0	-
120.0	65.0	0.0	-	0.0	-	-	28.0	-	-	-	0.0	-
120.0	70.0	0.0	-	0.0	-	-	12.3	-	-	-	0.0	-
120.0	80.0	0.0	-	2.7	-	-	0.0	-	-	-	0.0	-
120.0	90.0	0.0	-	2.9	-	-	4.8	-	-	-	0.0	-
120.0	100.0	2.9	-	0.0	-	-	-	-	-	-	0.0	-
123.0	42.0	0.0	-	0.0	-	-	28.4	-	-	0.0	-	-
123.0	45.0	0.0	-	0.0	-	-	32.2	-	-	0.0	-	-
123.0	50.0	0.0	-	0.0	-	-	5.3	-	-	0.0	-	-
123.0	60.0	0.0	-	2.9	-	-	7.2	-	-	0.0	-	-
123.0	65.0	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
123.0	70.0	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
123.0	80.0	0.0	-	0.0	-	-	13.0	-	-	0.0	-	-
127.0	34.0	0.0	-	0.0	-	-	6.8	-	-	0.0	-	-
127.0	45.0	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
127.0	50.0	0.0	-	3.0	-	-	2.5	-	-	0.0	-	-
127.0	55.0	0.0	-	0.0	-	-	4.8	-	-	0.0	-	-
127.0	60.0	0.0	-	3.0	-	-	2.5	-	-	0.0	-	-
127.0	65.0	2.9	-	0.0	-	-	2.4	-	-	0.0	-	-
127.0	80.0	3.1	-	0.0	-	-	0.0	-	-	0.0	-	-
130.0	35.0	0.0	-	0.0	-	-	2.9	-	-	-	0.0	-
130.0	60.0	0.0	-	2.6	-	-	0.0	-	-	-	0.0	-
137.0	45.0	0.0	-	2.7	-	-	-	-	-	-	0.0	-
137.0	55.0	0.0	-	0.0	-	-	-	-	-	-	2.9	-

*Leuroglossus stilbius*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	52.0	-	2.8	-	-	-	-	-	-	0.0	-	-
60.0	55.0	-	0.0	-	-	-	-	-	-	0.0	-	-
60.0	60.0	0.0	5.8	-	-	-	-	-	-	0.0	-	-
60.0	70.0	-	8.5	-	-	-	-	-	-	0.0	-	-
63.0	52.0	-	6.7	-	-	-	-	-	-	0.0	-	-
63.0	55.0	16.9	104.0	-	-	-	-	-	-	0.0	-	-
63.0	60.0	2.6	29.5	-	-	-	-	-	-	0.0	-	-
67.0	50.0	0.0	35.2	-	-	-	-	-	-	0.0	-	-
67.0	55.0	9.1	28.2	-	-	-	-	-	-	-	-	-
67.0	60.0	16.0	103.7	-	-	-	-	-	-	0.0	-	-
70.0	53.0	13.0	29.3	-	-	-	-	-	-	-	-	-
70.0	55.0	8.3	17.1	-	-	-	-	-	-	-	-	-
70.0	60.0	7.4	4.8	-	-	-	-	-	-	0.0	-	-
70.0	70.0	0.0	-	-	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

*Leuroglossus stilbius* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	53.0	109.0	202.5	-	-	-	-	-	-	0.0	-	-
73.0	60.0	5.7	402.6	-	-	-	-	-	-	0.0	-	-
77.0	51.0	112.2	320.9	-	-	-	-	-	-	0.0	-	-
77.0	55.0	0.0	75.9	-	-	-	-	-	-	0.0	-	-
77.0	57.0	4.6	79.9	-	-	-	-	-	-	0.0	-	-
80.0	52.0	76.4	380.4	-	-	-	-	-	-	2.3	-	-
80.0	55.0	61.2	43.4	-	-	-	-	0.0	-	-	-	-
80.0	60.0	0.0	8.3	-	-	-	-	0.0	-	0.0	-	-
80.0	65.0	0.0	5.5	-	-	-	-	0.0	-	0.0	-	-
80.0	70.0	2.9	1.9	-	-	-	-	0.0	-	0.0	-	-
80.0	80.0	3.6	30.0	-	-	-	-	0.0	-	0.0	-	-
80.0	90.0	3.0	0.0	-	-	-	-	0.0	-	0.0	-	-
80.0	120.0	0.0	2.8	-	-	-	-	0.0	-	0.0	-	-
82.0	47.0	33.1	-	217.4	-	-	0.0	-	-	0.0	-	-
83.0	43.0	10.8	-	11.4	-	-	5.3	-	-	0.0	-	-
83.0	51.0	2.5	-	47.8	-	-	0.0	-	-	0.0	-	-
83.0	55.0	39.9	-	105.5	-	-	16.4	-	-	0.0	-	-
83.0	60.0	49.3	-	232.8	-	-	5.6	-	-	0.0	-	-
83.0	65.0	5.1	-	157.9	-	-	0.0	-	-	0.0	-	-
83.0	70.0	8.1	-	101.5	-	-	0.0	-	-	0.0	-	-
83.0	80.0	0.0	-	21.0	-	-	0.0	-	-	0.0	-	-
83.0	90.0	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
87.0	35.0	19.3	-	160.0	-	-	0.0	-	-	0.0	-	-
87.0	40.0	125.1	-	177.8	-	-	2.9	-	-	0.0	-	-
87.0	45.0	84.0	-	232.1	-	-	0.0	-	-	0.0	-	-
87.0	50.0	8.4	-	23.3	-	-	0.0	-	-	0.0	-	-
87.0	55.0	108.3	-	114.7	-	-	5.9	-	-	0.0	-	-
87.0	60.0	12.0	-	168.3	-	-	0.0	-	-	0.0	-	-
87.0	65.0	0.0	-	58.1	-	-	0.0	-	-	0.0	-	-
87.0	70.0	5.2	-	210.0	-	-	0.0	-	-	0.0	-	-
87.0	80.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
90.0	28.0	96.6	-	187.3	-	-	-	0.0	-	-	0.0	-
90.0	32.0	86.1	-	945.8	-	-	-	-	-	-	0.0	-
90.0	37.0	17.6	-	328.8	-	-	-	4.7	-	-	5.6	-
90.0	40.0	-	-	-	-	-	-	-	-	-	-	-
90.0	45.0	41.5	-	138.5	-	-	-	-	-	-	0.0	-
90.0	53.0	2.2	-	262.6	-	-	-	-	-	-	2.7	-
90.0	60.0	0.0	-	52.9	-	-	-	0.0	-	-	0.0	-
90.0	65.0	0.0	-	5.9	-	-	-	-	-	0.0	-	-
90.0	70.0	5.8	-	3.0	-	-	-	0.0	-	0.0	-	-
93.0	28.0	66.5	-	1798.3	-	-	0.0	-	-	0.0	-	-
93.0	30.0	69.9	-	741.7	-	-	4.6	-	-	0.0	-	-
93.0	35.0	28.2	-	372.5	-	-	2.9	-	-	0.0	-	-
93.0	40.0	13.9	-	34.3	-	-	7.7	-	-	0.0	-	-
93.0	45.0	8.9	-	42.6	-	-	2.7	-	-	0.0	-	-
93.0	50.0	18.1	-	39.5	-	-	0.0	-	-	0.0	-	-

TABLE 4. (cont.)

*Leuroglossus stilbius* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	55.0	6.0	-	60.9	-	-	0.0	-	-	0.0	-	-
93.0	60.0	3.0	-	39.6	-	-	7.8	-	-	0.0	-	-
93.0	65.0	0.0	-	11.4	-	-	0.0	-	-	0.0	-	-
93.0	70.0	0.0	-	20.9	-	-	5.4	-	-	0.0	-	-
93.0	80.0	0.0	-	3.0	-	-	10.1	-	-	0.0	-	-
97.0	30.0	8.9	-	8.8	-	-	0.0	-	-	0.0	-	-
97.0	32.0	34.0	-	41.3	-	-	-	-	-	0.0	-	-
97.0	35.0	16.9	-	121.2	-	-	0.0	-	-	0.0	-	-
97.0	40.0	23.4	-	43.8	-	-	4.8	-	-	-	-	-
97.0	45.0	14.8	-	108.1	-	-	0.0	-	-	0.0	-	-
97.0	50.0	23.1	-	86.8	-	-	0.0	-	-	0.0	-	-
97.0	55.0	0.0	-	54.9	-	-	0.0	-	-	0.0	-	-
97.0	60.0	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
100.0	30.0	-	-	31.2	-	-	0.0	-	-	-	0.0	-
100.0	35.0	41.2	-	17.3	-	-	0.0	-	-	-	0.0	-
100.0	40.0	0.0	-	122.9	-	-	0.0	-	-	-	0.0	-
100.0	45.0	5.8	-	15.2	-	-	0.0	-	-	-	0.0	-
100.0	50.0	0.0	-	31.2	-	-	0.0	-	-	-	0.0	-
103.0	30.0	0.0	-	8.7	-	-	0.0	-	-	0.0	-	-
103.0	35.0	2.7	-	71.5	-	-	4.8	-	-	0.0	-	-
103.0	40.0	3.0	-	78.4	-	-	0.0	-	-	0.0	-	-
103.0	45.0	6.2	-	3.1	-	-	0.0	-	-	0.0	-	-
103.0	60.0	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
107.0	32.0	8.2	-	29.3	-	-	0.0	-	-	0.0	-	-
107.0	35.0	0.0	-	52.9	-	-	0.0	-	-	0.0	-	-
107.0	40.0	0.0	-	99.3	-	-	0.0	-	-	0.0	-	-
107.0	45.0	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
107.0	50.0	0.0	-	49.5	-	-	0.0	-	-	0.0	-	-
107.0	55.0	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
107.0	65.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
110.0	32.0	-	-	2.1	-	-	0.0	-	-	-	0.0	-
110.0	33.0	6.1	-	-	-	-	-	-	-	-	-	-
110.0	35.0	0.0	-	2.9	-	-	5.5	-	-	-	0.0	-
110.0	60.0	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-
113.0	35.0	0.0	-	49.1	-	-	0.0	-	-	0.0	-	-
113.0	40.0	0.0	-	308.0	-	-	5.4	-	-	0.0	-	-
113.0	45.0	0.0	-	50.7	-	-	0.0	-	-	0.0	-	-
113.0	50.0	0.0	-	134.2	-	-	0.0	-	-	0.0	-	-
113.0	55.0	0.0	-	9.0	-	-	2.3	-	-	0.0	-	-
113.0	65.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
115.0	35.0	0.0	-	-	22.9	-	0.0	-	-	-	0.0	-
117.0	26.0	0.0	-	2.8	-	-	0.0	-	-	2.0	-	-
117.0	30.0	0.0	-	16.0	-	-	0.0	-	-	0.0	-	-
117.0	35.0	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
117.0	40.0	2.9	-	128.3	-	-	0.0	-	-	0.0	-	-
117.0	45.0	2.9	-	331.1	-	-	5.0	-	-	0.0	-	-

TABLE 4. (cont.)

*Leuroglossus stilbius* (cont.)

STATION	JAN.	FEB.	MAR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	50.0	0.0	-	-	-	5.3	-	-	0.0	-	-
118.0	39.0	8.9	-	-	-	0.0	-	-	0.0	-	-
120.0	45.0	0.0	-	-	-	0.0	-	-	-	0.0	-
120.0	50.0	2.7	-	-	-	0.0	-	-	-	0.0	-
120.0	55.0	24.8	-	-	-	0.0	-	-	-	0.0	-
120.0	60.0	0.0	-	-	-	0.0	-	-	-	0.0	-
120.0	65.0	0.0	-	-	-	0.0	-	-	-	0.0	-
120.0	70.0	0.0	-	-	-	0.0	-	-	-	0.0	-
123.0	37.0	2.3	-	-	-	0.0	-	-	0.0	-	-
123.0	42.0	0.0	-	-	-	0.0	-	-	0.0	-	-
123.0	45.0	0.0	-	-	-	0.0	-	-	0.0	-	-
123.0	50.0	14.3	-	-	-	0.0	-	-	0.0	-	-
123.0	55.0	0.0	-	-	-	2.8	-	-	0.0	-	-
123.0	60.0	6.0	-	-	-	0.0	-	-	0.0	-	-
127.0	40.0	0.0	-	-	-	0.0	-	-	0.0	-	-
127.0	45.0	0.0	-	-	-	0.0	-	-	0.0	-	-
127.0	50.0	0.0	-	-	-	0.0	-	-	0.0	-	-
127.0	55.0	0.0	-	-	-	0.0	-	-	0.0	-	-
127.0	65.0	2.9	-	-	-	0.0	-	-	0.0	-	-
130.0	35.0	20.4	-	-	-	0.0	-	-	-	0.0	-
130.0	40.0	21.9	-	-	-	0.0	-	-	-	0.0	-
130.0	50.0	5.1	-	-	-	0.0	-	-	-	0.0	-
133.0	25.0	0.0	-	-	-	-	-	-	0.0	-	-
133.0	30.0	0.0	-	-	-	-	-	-	0.0	-	-
133.0	35.0	0.0	-	-	-	-	-	-	0.0	-	-
133.0	40.0	0.0	-	-	-	-	-	-	0.0	-	-
133.0	45.0	0.0	-	-	-	-	-	-	0.0	-	-
137.0	23.0	0.0	-	-	-	-	-	-	-	0.0	-
137.0	30.0	0.0	-	-	-	-	-	-	-	0.0	-
137.0	35.0	0.0	-	-	-	-	-	-	-	0.0	-
140.0	35.0	0.0	-	-	-	-	-	-	-	0.0	-
140.0	40.0	0.0	-	-	-	-	-	-	-	0.0	-

## Stomiiformes

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	120.0	0.0	-	-	-	-	-	0.0	-	3.6	-	-
90.0	100.0	0.0	-	2.8	-	-	-	0.0	-	0.0	-	-
90.0	160.0	0.0	-	5.8	-	-	-	0.0	-	0.0	-	-
93.0	90.0	-	8.0	0.0	-	-	0.0	-	-	0.0	-	-



TABLE 4. (cont.)

## Gonostomatidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0 200.0	0.0	-	2.8	-	-	-	-	-	-	0.0	-	-
80.0 180.0	-	-	-	-	-	-	-	6.1	-	-	-	-
80.0 200.0	11.4	-	-	0.0	-	-	-	2.6	-	0.0	-	-
130.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.7	-

## Cyclothone spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 120.0	0.0	-	0.0	-	-	-	-	-	-	5.4	-	-
60.0 140.0	0.0	-	0.0	-	-	-	-	-	-	7.7	-	-
60.0 160.0	3.2	-	2.9	-	-	-	-	-	-	14.3	-	-
60.0 180.0	8.0	-	11.7	-	-	-	-	-	-	14.2	-	-
60.0 200.0	6.0	-	16.6	-	-	-	-	-	-	0.0	-	-
70.0 120.0	3.4	-	6.2	-	-	-	-	-	-	-	-	-
70.0 200.0	10.4	-	2.8	-	-	-	-	-	-	13.4	-	-
80.0 80.0	0.0	-	0.0	-	-	-	-	3.0	-	3.0	-	-
80.0 90.0	0.0	-	0.0	-	-	-	-	3.0	-	24.0	-	-
80.0 100.0	0.0	-	0.0	-	-	-	-	0.0	-	2.8	-	-
80.0 120.0	0.0	-	0.0	-	-	-	-	5.2	-	0.0	-	-
80.0 130.0	-	-	-	-	-	-	-	2.5	-	-	-	-
80.0 150.0	-	-	-	-	-	-	-	5.5	-	-	-	-
80.0 160.0	-	-	-	-	-	-	-	53.2	-	-	-	-
80.0 170.0	-	-	-	-	-	-	-	18.6	-	-	-	-
80.0 180.0	-	-	-	-	-	-	-	16.3	-	-	-	-
80.0 190.0	-	-	-	-	-	-	-	15.8	-	-	-	-
80.0 200.0	19.9	-	-	3.8	-	-	-	47.0	-	2.6	-	-
83.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	8.0	-	-
87.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	2.1	-	-
87.0 60.0	-	6.0	-	0.0	-	-	0.0	-	-	0.0	-	-
90.0 50.0	-	-	-	-	-	-	-	2.7	-	-	-	-
90.0 60.0	0.0	-	-	0.0	-	-	-	2.4	-	-	0.0	-
90.0 65.0	0.0	-	-	0.0	-	-	-	-	-	2.8	-	-
90.0 80.0	18.9	-	-	0.0	-	-	-	2.7	-	2.8	-	-
90.0 90.0	0.0	-	-	3.0	-	-	-	8.2	-	0.0	-	-
90.0 100.0	0.0	-	-	17.1	-	-	-	5.3	-	19.9	-	-
90.0 110.0	-	-	-	-	-	-	-	36.0	-	-	-	-
90.0 120.0	7.9	-	-	2.9	-	-	-	102.3	-	2.9	-	-
90.0 130.0	-	-	-	-	-	-	-	10.1	-	-	-	-
90.0 140.0	0.0	-	-	10.4	-	-	-	19.7	-	7.8	-	-
90.0 150.0	-	-	-	-	-	-	-	37.7	-	-	-	-
90.0 160.0	20.6	-	-	2.9	-	-	-	67.8	-	22.1	-	-
90.0 170.0	-	-	-	-	-	-	-	17.3	-	-	-	-
90.0 180.0	25.7	-	-	13.4	-	-	-	7.2	-	2.6	-	-
90.0 200.0	2.3	-	-	41.4	-	-	-	0.0	-	24.4	-	-
93.0 28.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-

TABLE 4. (cont.)

*Cyclothone* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	50.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
93.0	55.0	0.0	-	0.0	-	-	0.0	-	-	5.3	-	-
93.0	60.0	0.0	-	0.0	-	-	0.0	-	-	5.5	-	-
93.0	70.0	8.8	-	0.0	-	-	0.0	-	-	0.0	-	-
93.0	80.0	8.2	-	0.0	-	-	0.0	-	-	0.0	-	-
93.0	90.0	0.0	-	2.8	-	-	2.7	-	-	10.2	-	-
93.0	100.0	0.0	-	2.7	-	-	10.1	-	-	25.8	-	-
97.0	50.0	0.0	-	0.0	-	-	8.1	-	-	0.0	-	-
97.0	55.0	0.0	-	0.0	-	-	5.6	-	-	2.8	-	-
97.0	60.0	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
97.0	65.0	0.0	-	3.1	-	-	0.0	-	-	2.6	-	-
97.0	70.0	0.0	-	15.8	-	-	0.0	-	-	0.0	-	-
97.0	80.0	0.0	-	9.0	-	-	13.7	-	-	0.0	-	-
97.0	90.0	8.6	-	27.4	-	-	25.9	-	-	23.6	-	-
100.0	40.0	0.0	-	0.0	-	-	3.4	-	-	-	3.0	-
100.0	45.0	0.0	-	0.0	-	-	5.5	-	-	-	0.0	-
100.0	55.0	0.0	-	0.0	-	-	47.2	-	-	-	0.0	-
100.0	60.0	0.0	-	0.0	-	-	12.0	-	-	-	0.0	-
100.0	65.0	0.0	-	0.0	-	-	4.7	-	-	-	2.9	-
100.0	70.0	2.6	-	8.6	-	-	4.7	-	-	-	5.4	-
100.0	80.0	9.2	-	5.3	-	-	58.9	-	-	-	2.7	-
100.0	90.0	3.0	-	16.9	-	-	48.0	-	-	-	8.5	-
100.0	100.0	0.0	-	0.0	-	-	-	-	-	-	2.5	-
100.0	120.0	5.3	-	43.1	-	-	-	-	-	-	8.5	-
100.0	160.0	-	-	47.7	-	-	-	-	-	-	-	-
103.0	40.0	0.0	-	5.6	-	-	0.0	-	-	10.9	-	-
103.0	45.0	0.0	-	0.0	-	-	5.2	-	-	0.0	-	-
103.0	55.0	0.0	-	0.0	-	-	5.6	-	-	3.0	-	-
103.0	60.0	0.0	-	0.0	-	-	2.7	-	-	2.9	-	-
103.0	65.0	0.0	-	2.9	-	-	0.0	-	-	37.4	-	-
103.0	70.0	0.0	-	2.7	-	-	8.2	-	-	32.3	-	-
103.0	80.0	3.0	-	2.5	-	-	3.0	-	-	55.0	-	-
103.0	90.0	0.0	-	-	-	-	11.8	-	-	10.6	-	-
107.0	45.0	0.0	-	11.4	-	-	0.0	-	-	5.6	-	-
107.0	55.0	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
107.0	60.0	3.0	-	0.0	-	-	0.0	-	-	11.2	-	-
107.0	65.0	0.0	-	2.8	-	-	0.0	-	-	49.4	-	-
107.0	70.0	0.0	-	2.7	-	-	0.0	-	-	31.3	-	-
107.0	80.0	0.0	-	2.7	-	-	0.0	-	-	2.8	-	-
107.0	90.0	3.1	-	-	-	-	0.0	-	-	18.8	-	-
110.0	40.0	0.0	-	12.9	-	-	0.0	-	-	-	2.6	-
110.0	45.0	0.0	-	0.0	-	-	0.0	-	-	37.1	37.1	-
110.0	55.0	0.0	-	2.8	-	-	0.0	-	-	-	2.3	-
110.0	60.0	16.5	-	0.0	-	-	0.0	-	-	-	2.4	-
110.0	65.0	0.0	-	4.9	-	-	0.0	-	-	-	2.3	-
110.0	70.0	5.3	-	10.7	-	-	0.0	-	-	-	0.0	-

TABLE 4. (cont.)

*Cyclothone spp. (cont.)*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0 80.0	-	9.0	-	2.5	-	-	7.7	-	-	-	38.9	-
110.0 90.0	-	2.5	-	2.9	-	-	2.3	-	-	-	58.2	-
110.0 100.0	-	0.0	-	8.2	-	-	-	-	-	-	0.0	-
110.0 120.0	-	23.9	-	0.0	-	-	-	-	-	-	5.7	-
110.0 140.0	-	-	-	10.6	-	-	-	-	-	-	-	-
110.0 160.0	-	-	-	0.0	-	-	0.0	-	-	2.7	-	-
113.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
113.0 40.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
113.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	4.9	-	-
113.0 50.0	-	0.0	-	21.4	-	-	0.0	-	-	16.1	-	-
113.0 55.0	-	0.0	-	0.0	-	-	2.3	-	-	5.3	-	-
113.0 60.0	-	0.0	-	11.4	-	-	0.0	-	-	2.6	-	-
113.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
113.0 70.0	-	0.0	-	3.0	-	-	5.8	-	-	39.1	-	-
113.0 80.0	-	8.2	-	5.7	-	-	2.2	-	-	26.5	-	-
113.0 90.0	-	14.6	-	43.4	-	-	0.0	-	-	6.0	-	-
117.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
117.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0 60.0	-	3.0	-	2.4	-	-	7.5	-	-	2.8	-	-
117.0 70.0	-	0.0	-	8.6	-	-	16.1	-	-	11.0	-	-
117.0 80.0	-	5.9	-	13.6	-	-	57.4	-	-	53.1	-	-
117.0 90.0	-	0.0	-	14.5	-	-	32.0	-	-	-	0.0	-
120.0 50.0	-	0.0	-	0.0	-	-	61.4	-	-	-	0.0	-
120.0 55.0	-	0.0	-	2.5	-	-	26.6	-	-	-	0.0	-
120.0 60.0	-	0.0	-	0.0	-	-	10.2	-	-	-	5.3	-
120.0 65.0	-	0.0	-	0.0	-	-	34.3	-	-	-	0.0	-
120.0 70.0	-	2.7	-	0.0	-	-	12.4	-	-	-	2.6	-
120.0 80.0	-	7.5	-	2.7	-	-	66.9	-	-	-	7.9	-
120.0 90.0	-	0.0	-	0.0	-	-	-	-	-	-	0.0	-
120.0 100.0	-	5.9	-	0.0	-	-	-	-	-	-	0.0	-
120.0 120.0	-	0.0	-	2.8	-	-	-	-	-	-	-	-
123.0 42.0	-	0.0	-	0.0	-	-	7.7	-	-	0.0	-	-
123.0 45.0	-	0.0	-	0.0	-	-	12.4	-	-	0.0	-	-
123.0 50.0	-	0.0	-	0.0	-	-	57.9	-	-	0.0	-	-
123.0 55.0	-	0.0	-	0.0	-	-	8.5	-	-	0.0	-	-
123.0 60.0	-	0.0	-	0.0	-	-	12.0	-	-	0.0	-	-
123.0 65.0	-	0.0	-	0.0	-	-	4.6	-	-	0.0	-	-
123.0 70.0	-	0.0	-	2.9	-	-	7.5	-	-	0.0	-	-
123.0 80.0	-	2.8	-	0.0	-	-	49.4	-	-	0.0	-	-
127.0 55.0	-	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
127.0 60.0	-	0.0	-	0.0	-	-	12.3	-	-	0.0	-	-
127.0 70.0	-	0.0	-	0.0	-	-	15.2	-	-	2.6	-	-
127.0 80.0	-	9.3	-	2.9	-	-	4.7	-	-	10.1	-	-
130.0 30.0	-	5.4	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0 35.0	-	0.0	-	0.0	-	-	8.8	-	-	-	0.0	-
130.0 45.0	-	0.0	-	2.7	-	-	0.0	-	-	-	0.0	-

TABLE 4. (cont.)

*Cyclothone* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0 55.0	-	0.0	-	2.9	-	-	0.0	-	-	-	0.0	-
130.0 60.0	-	0.0	-	2.6	-	-	10.3	-	-	-	0.0	-
130.0 70.0	-	6.0	-	2.5	-	-	20.4	-	-	-	0.0	-
130.0 80.0	-	14.8	-	0.0	-	-	15.5	-	-	-	5.3	-
130.0 90.0	-	2.6	-	2.6	-	-	5.1	-	-	-	0.0	-
130.0 100.0	-	5.4	-	0.0	-	-	-	-	-	-	0.0	-
130.0 120.0	-	8.9	-	0.0	-	-	-	-	-	0.0	5.1	-
133.0 25.0	-	0.0	-	2.6	-	-	-	-	-	0.0	-	-
133.0 30.0	-	2.9	-	0.0	-	-	-	-	-	0.0	-	-
133.0 45.0	-	0.0	-	2.7	-	-	-	-	-	0.0	-	-
133.0 50.0	-	6.3	-	0.0	-	-	-	-	-	0.0	-	-
133.0 55.0	-	2.7	-	0.0	-	-	-	-	-	0.0	-	-
133.0 60.0	-	2.9	-	2.8	-	-	-	-	-	0.0	-	-
133.0 65.0	-	8.5	-	0.0	-	-	-	-	-	5.6	-	-
133.0 70.0	-	0.0	-	0.0	-	-	-	-	-	5.3	-	-
133.0 80.0	-	5.8	-	0.0	-	-	-	-	-	8.1	-	-
137.0 45.0	-	2.7	-	0.0	-	-	-	-	-	-	0.0	-
137.0 60.0	-	5.3	-	2.8	-	-	-	-	-	-	0.0	-
137.0 70.0	-	5.8	-	0.0	-	-	-	-	-	-	2.9	-
137.0 80.0	-	13.0	-	2.8	-	-	-	-	-	-	2.8	-

*Diplophos taenia*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0 180.0	0.0	-	-	0.0	-	-	-	2.4	-	0.0	-	-
130.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.6	-
130.0 100.0	-	0.0	-	0.0	-	-	-	-	-	-	2.6	-
133.0 45.0	-	0.0	-	0.0	-	-	-	-	-	2.9	-	-
133.0 50.0	-	0.0	-	0.0	-	-	-	-	-	2.8	-	-

*Ichthyococcus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0 100.0	-	0.0	-	2.6	-	-	-	-	-	-	0.0	-
107.0 90.0	-	0.0	-	-	-	-	0.0	-	-	2.7	-	-
110.0 70.0	-	0.0	-	2.7	-	-	0.0	-	-	-	0.0	-
113.0 70.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
117.0 80.0	-	0.0	-	2.3	-	-	0.0	-	-	0.0	-	-
117.0 90.0	-	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
120.0 60.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
120.0 90.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
120.0 100.0	-	0.0	-	2.8	-	-	-	-	-	-	0.0	-
123.0 70.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
127.0 50.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-

TABLE 4. (cont.)

*Vinciguerria lucetia*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 160.0	0.0	-	0.0	-	-	-	-	-	-	11.5	-	-
60.0 180.0	2.7	-	11.7	-	-	-	-	-	-	5.7	-	-
60.0 200.0	0.0	-	11.1	-	-	-	-	-	-	0.0	-	-
70.0 200.0	0.0	-	5.7	-	-	-	-	-	-	77.7	-	-
80.0 80.0	0.0	-	0.0	-	-	-	-	0.0	-	3.0	-	-
80.0 120.0	0.0	-	0.0	-	-	-	-	0.0	-	3.6	-	-
80.0 160.0	-	-	-	-	-	-	-	22.4	-	-	-	-
80.0 170.0	-	-	-	-	-	-	-	8.0	-	-	-	-
80.0 200.0	5.7	-	-	15.0	-	-	-	26.1	-	2.6	-	-
87.0 55.0	-	0.0	-	2.4	-	-	0.0	-	-	0.0	-	-
87.0 60.0	-	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
87.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	5.1	-	-
87.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
90.0 28.0	0.0	-	-	0.0	-	-	-	0.0	-	-	2.5	-
90.0 60.0	0.0	-	-	0.0	-	-	-	102.5	-	-	8.3	-
90.0 65.0	0.0	-	-	0.0	-	-	-	-	-	8.3	-	-
90.0 70.0	0.0	-	-	0.0	-	-	-	2.7	-	0.0	-	-
90.0 80.0	0.0	-	-	0.0	-	-	-	5.4	-	0.0	-	-
90.0 90.0	0.0	-	-	3.0	-	-	-	16.4	-	0.0	-	-
90.0 120.0	2.6	-	-	2.9	-	-	-	38.1	-	0.0	-	-
90.0 130.0	-	-	-	-	-	-	-	186.5	-	-	-	-
90.0 140.0	0.0	-	-	13.0	-	-	-	135.3	-	15.6	-	-
90.0 150.0	-	-	-	-	-	-	-	47.7	-	-	-	-
90.0 160.0	11.8	-	-	8.8	-	-	-	52.7	-	24.8	-	-
90.0 170.0	-	-	-	-	-	-	-	7.4	-	-	-	-
90.0 180.0	11.4	-	-	2.7	-	-	-	12.0	-	0.0	-	-
90.0 200.0	0.0	-	-	8.3	-	-	-	7.2	-	16.3	-	-
93.0 30.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
93.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
93.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	47.3	-	-
93.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	16.6	-	-
93.0 65.0	-	0.0	-	2.8	-	-	0.0	-	-	2.8	-	-
93.0 90.0	-	0.0	-	8.6	-	-	0.0	-	-	7.6	-	-
93.0 100.0	-	5.7	-	21.9	-	-	5.0	-	-	8.6	-	-
97.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
97.0 50.0	-	0.0	-	0.0	-	-	16.2	-	-	5.6	-	-
97.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	5.7	-	-
97.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	5.0	-	-
97.0 70.0	-	0.0	-	6.3	-	-	0.0	-	-	0.0	-	-
97.0 80.0	-	0.0	-	3.0	-	-	106.5	-	-	0.0	-	-
97.0 90.0	-	14.4	-	3.0	-	-	194.4	-	-	123.1	-	-
100.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	-	6.0	-
100.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.7	-
100.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	-	8.8	-
100.0 55.0	-	0.0	-	0.0	-	-	44.8	-	-	-	0.0	-
100.0 60.0	-	0.0	-	2.8	-	-	0.0	-	-	-	0.0	-



TABLE 4. (cont.)

*Vinciguerria lucetia* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	65.0	3.1	-	2.9	-	-	21.1	-	-	-	8.7	-
100.0	70.0	2.6	-	0.0	-	-	28.4	-	-	-	10.9	-
100.0	80.0	4.6	-	2.6	-	-	430.1	-	-	-	24.5	-
100.0	90.0	6.1	-	16.9	-	-	240.0	-	-	-	5.6	-
100.0	100.0	21.4	-	2.6	-	-	-	-	-	-	59.3	-
100.0	120.0	18.4	-	163.4	-	-	-	-	-	-	19.9	-
100.0	140.0	-	-	60.7	-	-	-	-	-	-	-	-
100.0	160.0	-	-	29.2	-	-	-	-	-	-	-	-
103.0	35.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
103.0	40.0	0.0	-	2.8	-	-	0.0	-	-	8.2	-	-
103.0	50.0	0.0	-	0.0	-	-	0.0	-	-	3.4	-	-
103.0	55.0	0.0	-	0.0	-	-	2.8	-	-	44.4	-	-
103.0	60.0	2.9	-	0.0	-	-	21.2	-	-	40.9	-	-
103.0	65.0	0.0	-	0.0	-	-	19.2	-	-	472.6	-	-
103.0	70.0	0.0	-	2.7	-	-	62.6	-	-	441.2	-	-
103.0	80.0	0.0	-	0.0	-	-	51.7	-	-	2101.0	-	-
103.0	90.0	16.7	-	-	-	-	153.9	-	-	202.2	-	-
107.0	32.0	0.0	-	0.0	-	-	0.0	-	-	14.4	-	-
107.0	35.0	0.0	-	0.0	-	-	0.0	-	-	14.3	-	-
107.0	40.0	0.0	-	0.0	-	-	0.0	-	-	57.6	-	-
107.0	45.0	0.0	-	0.0	-	-	0.0	-	-	19.7	-	-
107.0	50.0	2.6	-	2.9	-	-	2.8	-	-	2.7	-	-
107.0	55.0	0.0	-	0.0	-	-	0.0	-	-	32.6	-	-
107.0	60.0	18.3	-	0.0	-	-	0.0	-	-	234.4	-	-
107.0	65.0	0.0	-	0.0	-	-	0.0	-	-	817.6	-	-
107.0	70.0	0.0	-	0.0	-	-	5.7	-	-	894.9	-	-
107.0	80.0	0.0	-	13.7	-	-	0.0	-	-	49.9	-	-
107.0	90.0	3.1	-	-	-	-	73.8	-	-	227.8	-	-
110.0	40.0	0.0	-	2.6	-	-	0.0	-	-	-	31.2	-
110.0	45.0	0.0	-	0.0	-	-	3.1	-	-	-	201.4	-
110.0	50.0	0.0	-	0.0	-	-	0.0	-	-	-	51.6	-
110.0	55.0	6.6	-	5.6	-	-	5.0	-	-	-	94.0	-
110.0	60.0	24.8	-	0.0	-	-	2.6	-	-	-	23.7	-
110.0	65.0	0.0	-	4.9	-	-	0.0	-	-	-	7.0	-
110.0	70.0	15.8	-	32.2	-	-	0.0	-	-	-	0.0	-
110.0	80.0	17.9	-	2.5	-	-	66.8	-	-	-	475.4	-
110.0	90.0	10.1	-	14.6	-	-	151.4	-	-	-	506.3	-
110.0	100.0	41.0	-	5.5	-	-	-	-	-	-	40.2	-
110.0	120.0	54.6	-	0.0	-	-	-	-	-	-	14.3	-
110.0	140.0	-	-	44.6	-	-	-	-	-	-	-	-
113.0	35.0	0.0	-	0.0	-	-	0.0	-	-	27.0	-	-
113.0	40.0	0.0	-	0.0	-	-	0.0	-	-	166.4	-	-
113.0	45.0	0.0	-	0.0	-	-	0.0	-	-	12.0	-	-
113.0	50.0	0.0	-	0.0	-	-	0.0	-	-	9.9	-	-
113.0	55.0	0.0	-	6.0	-	-	0.0	-	-	101.8	-	-
113.0	60.0	0.0	-	5.7	-	-	4.6	-	-	122.4	-	-

TABLE 4. (cont.)

*Vinciguerrria lucetia* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	65.0	5.3	-	3.0	-	-	8.9	-	-	36.7	-	-
113.0	70.0	0.0	-	14.8	-	-	7.5	-	-	59.4	-	-
113.0	80.0	5.4	-	5.7	-	-	116.4	-	-	605.4	-	-
113.0	90.0	5.8	-	46.2	-	-	41.4	-	-	227.9	-	-
117.0	40.0	0.0	-	0.0	-	-	0.0	-	-	8.0	-	-
117.0	45.0	0.0	-	0.0	-	-	0.0	-	-	11.4	-	-
117.0	50.0	0.0	-	0.0	-	-	0.0	-	-	14.9	-	-
117.0	55.0	0.0	-	0.0	-	-	23.9	-	-	17.0	-	-
117.0	60.0	0.0	-	0.0	-	-	2.5	-	-	5.8	-	-
117.0	65.0	8.8	-	0.0	-	-	2.5	-	-	8.6	-	-
117.0	70.0	9.4	-	5.7	-	-	15.0	-	-	2.8	-	-
117.0	80.0	8.9	-	18.1	-	-	442.2	-	-	24.7	-	-
117.0	90.0	2.1	-	49.1	-	-	779.1	-	-	238.9	-	-
118.0	39.0	0.0	-	0.0	-	-	0.0	-	-	8.6	-	-
120.0	45.0	0.0	-	0.0	-	-	2.6	-	-	-	2.6	-
120.0	50.0	0.0	-	0.0	-	-	82.8	-	-	-	0.0	-
120.0	55.0	0.0	-	5.1	-	-	395.2	-	-	-	0.0	-
120.0	60.0	0.0	-	0.0	-	-	285.6	-	-	-	18.6	-
120.0	65.0	3.1	-	2.6	-	-	272.9	-	-	-	5.3	-
120.0	70.0	5.4	-	0.0	-	-	183.8	-	-	-	0.0	-
120.0	80.0	17.5	-	5.3	-	-	488.6	-	-	-	21.1	-
120.0	90.0	10.6	-	0.0	-	-	1639.5	-	-	-	34.1	-
120.0	100.0	17.6	-	19.3	-	-	-	-	-	-	16.5	-
120.0	120.0	7.8	-	52.3	-	-	-	-	-	-	21.6	-
123.0	37.0	0.0	-	0.0	-	-	4.3	-	-	0.0	-	-
123.0	42.0	0.0	-	0.0	-	-	126.4	-	-	0.0	-	-
123.0	45.0	0.0	-	0.0	-	-	109.1	-	-	5.7	-	-
123.0	50.0	0.0	-	0.0	-	-	255.1	-	-	2.8	-	-
123.0	55.0	0.0	-	0.0	-	-	34.1	-	-	0.0	-	-
123.0	60.0	0.0	-	5.8	-	-	74.1	-	-	0.0	-	-
123.0	65.0	2.7	-	17.6	-	-	157.3	-	-	0.0	-	-
123.0	70.0	0.0	-	6.1	-	-	162.5	-	-	19.9	-	-
123.0	80.0	30.3	-	3.2	-	-	1084.2	-	-	21.0	-	-
127.0	34.0	0.0	-	0.0	-	-	4.6	-	-	0.0	-	-
127.0	40.0	0.0	-	0.0	-	-	0.0	-	-	8.6	-	-
127.0	45.0	0.0	-	3.1	-	-	0.0	-	-	11.0	-	-
127.0	50.0	3.0	-	0.0	-	-	2.5	-	-	0.0	-	-
127.0	55.0	0.0	-	0.0	-	-	4.8	-	-	0.0	-	-
127.0	60.0	0.0	-	0.0	-	-	728.2	-	-	7.9	-	-
127.0	65.0	2.9	-	0.0	-	-	216.3	-	-	19.2	-	-
127.0	70.0	3.1	-	3.0	-	-	68.6	-	-	13.1	-	-
127.0	80.0	9.3	-	0.0	-	-	178.6	-	-	40.5	-	-
130.0	30.0	29.7	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	35.0	0.0	-	0.0	-	-	96.4	-	-	-	5.7	-
130.0	40.0	0.0	-	0.0	-	-	9.0	-	-	-	2.5	-
130.0	45.0	0.0	-	0.0	-	-	2.8	-	-	-	2.5	-

TABLE 4. (cont.)

*Vinciguerria lucetia* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	50.0	0.0	-	0.0	-	-	27.3	-	-	-	2.7	-
130.0	55.0	5.8	-	0.0	-	-	13.4	-	-	-	5.5	-
130.0	60.0	5.5	-	23.6	-	-	31.0	-	-	-	65.8	-
130.0	65.0	-	-	-	-	-	12.3	-	-	-	-	-
130.0	70.0	20.9	-	22.7	-	-	237.1	-	-	-	11.2	-
130.0	80.0	140.2	-	10.2	-	-	253.8	-	-	-	18.6	-
130.0	90.0	91.0	-	432.3	-	-	66.8	-	-	-	42.2	-
130.0	100.0	53.6	-	177.9	-	-	-	-	-	-	13.0	-
130.0	120.0	132.8	-	111.8	-	-	-	-	-	-	58.2	-
133.0	25.0	0.0	-	10.6	-	-	-	-	-	0.0	-	-
133.0	35.0	3.0	-	0.0	-	-	-	-	-	45.9	-	-
133.0	40.0	0.0	-	16.4	-	-	-	-	-	48.5	-	-
133.0	45.0	13.6	-	18.9	-	-	-	-	-	57.2	-	-
133.0	50.0	53.6	-	25.7	-	-	-	-	-	41.7	-	-
133.0	55.0	2.7	-	21.6	-	-	-	-	-	0.0	-	-
133.0	60.0	8.7	-	19.7	-	-	-	-	-	5.9	-	-
133.0	65.0	31.0	-	5.7	-	-	-	-	-	2.8	-	-
133.0	70.0	5.7	-	16.5	-	-	-	-	-	29.0	-	-
133.0	80.0	265.7	-	17.5	-	-	-	-	-	5.4	-	-
137.0	30.0	8.1	-	0.0	-	-	-	-	-	-	0.0	-
137.0	35.0	2.9	-	2.9	-	-	-	-	-	-	0.0	-
137.0	40.0	8.0	-	47.2	-	-	-	-	-	-	0.0	-
137.0	45.0	56.5	-	16.0	-	-	-	-	-	-	2.8	-
137.0	50.0	21.8	-	42.1	-	-	-	-	-	-	33.5	-
137.0	55.0	54.3	-	202.5	-	-	-	-	-	-	34.9	-
137.0	60.0	140.5	-	159.6	-	-	-	-	-	-	42.9	-
137.0	70.0	113.1	-	80.9	-	-	-	-	-	-	14.3	-
137.0	80.0	83.5	-	101.9	-	-	-	-	-	-	22.2	-
140.0	30.0	0.0	-	0.0	-	-	-	-	-	-	5.3	-
140.0	35.0	0.0	-	14.2	-	-	-	-	-	-	60.0	-
140.0	40.0	18.3	-	13.2	-	-	-	-	-	-	27.5	-
140.0	45.0	39.5	-	36.5	-	-	-	-	-	-	36.1	-
140.0	50.0	5.9	-	35.8	-	-	-	-	-	-	0.0	-

*Vinciguerria poweriae*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	160.0	0.0	0.0	-	-	-	-	-	-	5.7	-	-
80.0	160.0	-	-	-	-	-	-	33.6	-	-	-	-
80.0	190.0	-	-	-	-	-	-	10.5	-	-	-	-
80.0	200.0	0.0	-	0.0	-	-	-	15.7	-	0.0	-	-
90.0	140.0	2.9	-	0.0	-	-	-	0.0	-	0.0	-	-
90.0	150.0	-	-	-	-	-	-	5.0	-	-	-	-
90.0	200.0	0.0	-	0.0	-	-	-	0.0	-	5.4	-	-

TABLE 4. (cont.)

## Sternoptychidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 140.0	0.0	-	0.0	-	-	-	-	-	-	7.7	-	-
60.0 160.0	3.2	-	0.0	-	-	-	-	-	-	11.5	-	-
60.0 200.0	0.0	-	2.8	-	-	-	-	-	-	2.8	-	-
70.0 120.0	0.0	-	6.2	-	-	-	-	-	-	-	-	-
70.0 200.0	0.0	-	5.7	-	-	-	-	-	-	0.0	-	-
80.0 170.0	-	-	-	-	-	-	-	2.7	-	-	-	-
80.0 200.0	14.2	-	-	0.0	-	-	0.0	0.0	-	2.6	-	-
83.0 90.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
87.0 55.0	-	0.0	-	2.4	-	-	0.0	-	-	0.0	-	-
90.0 80.0	2.7	-	-	0.0	-	-	0.0	0.0	-	0.0	-	-
90.0 110.0	-	-	-	-	-	-	-	7.7	-	-	-	-
90.0 120.0	5.3	-	-	0.0	-	-	-	2.4	-	0.0	-	-
90.0 160.0	0.0	-	-	2.9	-	-	-	0.0	-	0.0	-	-
90.0 180.0	5.7	-	-	0.0	-	-	-	0.0	-	0.0	-	-
90.0 200.0	0.0	-	-	0.0	-	-	-	2.4	-	0.0	-	-
93.0 30.0	-	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
93.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
93.0 90.0	-	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0 65.0	-	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
100.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-
100.0 45.0	-	0.0	-	9.1	-	-	0.0	-	-	-	0.0	-
100.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	-	8.7	-
100.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.7	-
100.0 80.0	-	2.3	-	0.0	-	-	0.0	-	-	-	0.0	-
100.0 90.0	-	3.0	-	2.8	-	-	0.0	-	-	-	0.0	-
100.0 100.0	-	0.0	-	2.6	-	-	0.0	-	-	-	0.0	-
100.0 160.0	-	-	-	8.0	-	-	-	-	-	-	-	-
103.0 65.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
103.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	8.3	-	-
107.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
107.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	4.9	-	-
107.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	5.7	-	-
110.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	-	5.6	-
110.0 100.0	-	2.6	-	5.5	-	-	0.0	-	-	-	0.0	-
110.0 160.0	-	-	-	2.7	-	-	-	-	-	-	-	-
113.0 40.0	-	0.0	-	6.2	-	-	0.0	-	-	0.0	-	-
113.0 60.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
113.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
117.0 55.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
117.0 90.0	-	0.0	-	2.9	-	-	0.0	-	-	3.0	-	-
120.0 50.0	-	0.0	-	2.5	-	-	0.0	-	-	-	0.0	-
120.0 80.0	-	0.0	-	2.7	-	-	0.0	-	-	-	0.0	-
120.0 100.0	-	0.0	-	2.8	-	-	0.0	-	-	-	0.0	-
123.0 42.0	-	0.0	-	0.0	-	-	5.2	-	-	0.0	-	-
123.0 65.0	-	0.0	-	2.9	-	-	4.6	-	-	0.0	-	-
123.0 70.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-

TABLE 4. (cont.)

## Sternoptychidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0 80.0	-	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
127.0 45.0	-	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
127.0 50.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
130.0 50.0	-	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
130.0 55.0	-	0.0	-	2.9	-	-	0.0	-	-	-	0.0	-
130.0 60.0	-	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-
130.0 70.0	-	0.0	-	2.5	-	-	0.0	-	-	-	0.0	-
130.0 80.0	-	2.5	-	0.0	-	-	0.0	-	-	-	0.0	-
133.0 35.0	-	0.0	-	2.7	-	-	-	-	-	0.0	-	-
133.0 50.0	-	0.0	-	2.9	-	-	-	-	-	0.0	-	-
133.0 55.0	-	0.0	-	5.4	-	-	-	-	-	0.0	-	-
133.0 70.0	-	0.0	-	0.0	-	-	-	-	-	2.6	-	-
133.0 80.0	-	0.0	-	0.0	-	-	-	-	-	2.7	-	-
137.0 30.0	-	0.0	-	5.7	-	-	-	-	-	-	0.0	-
137.0 35.0	-	0.0	-	2.9	-	-	-	-	-	-	0.0	-
137.0 40.0	-	0.0	-	3.0	-	-	-	-	-	-	0.0	-
140.0 40.0	-	0.0	-	5.3	-	-	-	-	-	-	0.0	-

## Astronesthidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0 90.0	-	0.0	-	0.0	-	-	4.8	-	-	0.0	-	-
133.0 35.0	-	3.0	-	0.0	-	-	-	-	-	0.0	-	-

## Chauliodus macouni

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 60.0	0.0	-	2.9	-	-	-	-	-	-	0.0	-	-
60.0 80.0	-	-	3.0	-	-	-	-	-	-	0.0	-	-
60.0 90.0	-	-	0.0	-	-	-	-	-	-	4.4	-	-
60.0 120.0	0.0	-	0.0	-	-	-	-	-	-	2.7	-	-
60.0 160.0	0.0	-	2.9	-	-	-	-	-	-	0.0	-	-
70.0 80.0	0.0	-	2.6	-	-	-	-	-	-	2.9	-	-
73.0 53.0	0.0	-	3.3	-	-	-	-	-	-	0.0	-	-
73.0 60.0	0.0	-	0.0	-	-	-	-	-	-	2.8	-	-
80.0 60.0	0.0	-	0.0	-	-	-	-	0.0	-	3.8	-	-
80.0 65.0	2.5	-	2.7	-	-	-	-	0.0	-	0.0	-	-
80.0 120.0	0.0	-	0.0	-	-	-	-	0.0	-	3.6	-	-
83.0 65.0	-	2.6	-	-	-	-	0.0	-	-	0.0	-	-
87.0 65.0	-	18.5	-	0.0	-	-	0.0	-	-	0.0	-	-
87.0 80.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
87.0 90.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
90.0 70.0	0.0	-	-	0.0	-	-	-	0.0	-	2.8	-	-
93.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-



TABLE 4. (cont.)

*Chauliodus macouni* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0 65.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
97.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
100.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-
100.0 45.0	-	0.0	-	3.0	-	-	0.0	-	-	-	0.0	-
100.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.7	-
103.0 35.0	-	0.0	-	6.0	-	-	0.0	-	-	0.0	-	-
103.0 65.0	-	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0 32.0	-	0.0	-	3.3	-	-	0.0	-	-	0.0	-	-
110.0 45.0	-	0.0	-	2.7	-	-	0.0	-	-	-	0.0	-

*Idiacanthus antrostomus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 140.0	0.0	-	0.0	-	-	-	-	-	-	18.1	-	-
60.0 160.0	0.0	-	0.0	-	-	-	-	-	-	5.7	-	-
60.0 180.0	0.0	-	0.0	-	-	-	-	-	-	5.7	-	-
70.0 80.0	0.0	-	2.6	-	-	-	-	-	-	0.0	-	-
70.0 200.0	5.2	-	0.0	-	-	-	-	0.0	-	0.0	-	-
80.0 90.0	0.0	-	0.0	-	-	-	-	0.0	-	5.3	-	-
80.0 120.0	0.0	-	0.0	-	-	-	-	2.5	-	7.3	-	-
80.0 140.0	-	-	-	-	-	-	-	-	-	-	-	-
83.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
83.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
90.0 60.0	0.0	-	-	0.0	-	-	-	0.0	-	-	5.5	-
90.0 80.0	0.0	-	-	0.0	-	-	-	0.0	-	2.8	-	-
90.0 90.0	0.0	-	-	0.0	-	-	-	0.0	-	2.7	-	-
90.0 100.0	0.0	-	-	0.0	-	-	-	2.6	-	0.0	-	-
90.0 110.0	-	-	-	-	-	-	-	7.7	-	-	-	-
90.0 120.0	0.0	-	-	0.0	-	-	-	4.8	-	8.7	-	-
90.0 140.0	0.0	-	-	0.0	-	-	-	0.0	-	2.6	-	-
93.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	7.9	-	-
93.0 70.0	-	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
93.0 80.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
93.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	10.2	-	-
93.0 100.0	-	0.0	-	0.0	-	-	0.0	-	-	11.5	-	-
97.0 80.0	-	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
100.0 45.0	-	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
100.0 65.0	-	3.1	-	0.0	-	-	4.7	-	-	-	0.0	-
100.0 70.0	-	0.0	-	0.0	-	-	4.7	-	-	-	2.7	-
100.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	-	27.2	-
100.0 90.0	-	0.0	-	0.0	-	-	2.4	-	-	-	2.8	-
100.0 100.0	-	0.0	-	0.0	-	-	-	-	-	-	4.9	-
103.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	5.3	-	-
103.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
103.0 80.0	-	3.0	-	0.0	-	-	0.0	-	-	5.5	-	-

TABLE 4. (cont.)

*Idiacanthus antrostomus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0 90.0	-	0.0	-	-	-	-	0.0	-	-	2.7	-	-
107.0 90.0	-	0.0	-	-	-	-	0.0	-	-	2.7	-	-
120.0 70.0	-	0.0	-	0.0	-	-	2.5	-	-	-	0.0	-
120.0 120.0	-	0.0	-	0.0	-	-	-	-	-	-	2.7	-
123.0 80.0	-	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
130.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	-	5.3	-

*Aristostomias scintillans*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 180.0	0.0	-	0.0	-	-	-	-	-	-	2.8	-	-
60.0 200.0	0.0	-	2.8	-	-	-	-	-	-	0.0	-	-
90.0 80.0	0.0	-	-	0.0	-	-	-	2.7	-	0.0	-	-
93.0 100.0	-	0.0	-	5.5	-	-	0.0	-	-	0.0	-	-
100.0 70.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
100.0 120.0	-	0.0	-	2.3	-	-	-	-	-	-	0.0	-
103.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
120.0 65.0	-	0.0	-	2.6	-	-	0.0	-	-	-	0.0	-
130.0 70.0	-	3.0	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0 120.0	-	3.0	-	0.0	-	-	-	-	-	-	0.0	-

*Bathophilus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 180.0	0.0	-	8.8	-	-	-	-	-	-	2.8	-	-
80.0 90.0	0.0	-	0.0	-	-	-	-	3.0	-	0.0	-	-
80.0 120.0	0.0	-	5.7	-	-	-	-	0.0	-	0.0	-	-
90.0 70.0	0.0	-	-	0.0	-	-	-	2.7	-	0.0	-	-
90.0 160.0	0.0	-	-	0.0	-	-	-	5.0	-	0.0	-	-
97.0 45.0	-	0.0	-	0.0	-	-	3.0	-	-	0.0	-	-
100.0 60.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
100.0 65.0	-	0.0	-	0.0	-	-	2.3	-	-	-	0.0	-
113.0 40.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-

*Eustomias* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0 200.0	0.0	-	-	0.0	-	-	-	2.4	-	0.0	-	-

TABLE 4. (cont.)

*Photonectes* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 200.0	0.0	-	5.5	-	-	-	-	-	-	0.0	-	-
90.0 150.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 180.0	0.0	-	-	0.0	-	-	-	2.4	-	0.0	-	-

*Tactostoma macropus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 140.0	0.0	-	0.0	-	-	-	-	-	-	7.7	-	-
70.0 70.0	0.0	-	0.0	-	-	-	-	-	-	2.8	-	-
80.0 130.0	-	-	-	-	-	-	-	17.9	-	-	-	-
80.0 140.0	-	-	-	-	-	-	-	22.3	-	-	-	-

*Stomias atriventer*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 80.0	0.0	-	2.1	-	-	-	-	0.0	-	0.0	-	-
80.0 110.0	-	-	-	-	-	-	-	2.9	-	-	-	-
87.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
90.0 80.0	0.0	-	-	2.7	-	-	-	0.0	-	0.0	-	-
90.0 90.0	0.0	-	-	6.0	-	-	-	0.0	-	0.0	-	-
90.0 120.0	0.0	-	-	2.9	-	-	-	0.0	-	0.0	-	-
93.0 65.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
93.0 100.0	-	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0 65.0	-	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
97.0 70.0	-	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
97.0 90.0	-	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
100.0 60.0	-	0.0	-	2.8	-	-	0.0	-	-	-	0.0	-
100.0 65.0	-	0.0	-	0.0	-	-	2.3	-	-	-	0.0	-
100.0 80.0	-	0.0	-	2.6	-	-	0.0	-	-	-	0.0	-
100.0 90.0	-	12.2	-	5.6	-	-	0.0	-	-	-	0.0	-
100.0 100.0	-	2.7	-	0.0	-	-	-	-	-	-	0.0	-
103.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
103.0 90.0	-	3.3	-	-	-	-	0.0	-	-	0.0	-	-
107.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-
107.0 45.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
107.0 55.0	-	0.0	-	2.8	-	-	0.0	-	-	3.0	-	-
107.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
107.0 90.0	-	3.1	-	-	-	-	0.0	-	-	0.0	-	-
110.0 65.0	-	5.4	-	0.0	-	-	0.0	-	-	-	0.0	-
110.0 70.0	-	34.3	-	0.0	-	-	0.0	-	-	-	0.0	-
110.0 80.0	-	6.0	-	0.0	-	-	0.0	-	-	-	0.0	-
110.0 90.0	-	2.5	-	0.0	-	-	0.0	-	-	-	0.0	-
110.0 100.0	-	2.6	-	0.0	-	-	-	-	-	-	0.0	-
113.0 50.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-

TABLE 4. (cont.)

*Stomias atriventer* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0 65.0	-	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
113.0 80.0	-	16.3	-	0.0	-	-	0.0	-	-	0.0	-	-
113.0 90.0	-	43.8	-	2.9	-	-	0.0	-	-	0.0	-	-
115.0 35.0	-	0.0	-	-	2.5	-	0.0	-	-	-	0.0	-
117.0 55.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
117.0 60.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
117.0 65.0	-	0.0	-	2.4	-	-	2.5	-	-	0.0	-	-
117.0 90.0	-	4.2	-	0.0	-	-	0.0	-	-	0.0	-	-
120.0 55.0	-	5.0	-	0.0	-	-	0.0	-	-	-	0.0	-
120.0 60.0	-	7.8	-	0.0	-	-	0.0	-	-	-	0.0	-
120.0 65.0	-	3.1	-	0.0	-	-	0.0	-	-	-	0.0	-
120.0 70.0	-	8.0	-	0.0	-	-	0.0	-	-	-	0.0	-
120.0 80.0	-	0.0	-	2.7	-	-	0.0	-	-	-	0.0	-
120.0 90.0	-	0.0	-	2.9	-	-	0.0	-	-	-	0.0	-
120.0 100.0	-	8.8	-	0.0	-	-	-	-	-	-	0.0	-
123.0 37.0	-	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
123.0 70.0	-	10.7	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0 65.0	-	29.4	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0 80.0	-	6.2	-	0.0	-	-	2.3	-	-	0.0	-	-
130.0 30.0	-	2.7	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-
130.0 50.0	-	12.8	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0 55.0	-	2.9	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0 60.0	-	2.8	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0 65.0	-	-	-	-	-	-	2.5	-	-	-	-	-
130.0 70.0	-	6.0	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0 100.0	-	2.7	-	0.0	-	-	-	-	-	-	0.0	-
133.0 45.0	-	0.0	-	2.7	-	-	-	-	-	0.0	-	-
133.0 50.0	-	6.3	-	0.0	-	-	-	-	-	0.0	-	-
133.0 55.0	-	2.7	-	2.7	-	-	-	-	-	0.0	-	-
133.0 60.0	-	2.9	-	2.8	-	-	-	-	-	0.0	-	-
133.0 65.0	-	2.8	-	0.0	-	-	-	-	-	0.0	-	-
133.0 70.0	-	0.0	-	3.3	-	-	-	-	-	0.0	-	-
137.0 35.0	-	2.9	-	0.0	-	-	-	-	-	-	0.0	-
137.0 45.0	-	2.7	-	0.0	-	-	-	-	-	-	0.0	-
137.0 50.0	-	2.7	-	2.8	-	-	-	-	-	-	0.0	-
137.0 60.0	-	5.3	-	0.0	-	-	-	-	-	-	0.0	-
137.0 70.0	-	2.9	-	0.0	-	-	-	-	-	-	0.0	-

*Evermannellidae*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0 200.0	0.0	-	2.8	-	-	-	-	-	-	0.0	-	-
80.0 200.0	0.0	-	-	0.0	-	-	-	2.6	-	0.0	-	-
90.0 200.0	0.0	-	-	2.8	-	-	-	0.0	-	0.0	-	-

TABLE 4. (cont.)

## Paralepididae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0 120.0	-	0.0	-	2.3	-	-	-	-	-	-	0.0	-
100.0 140.0	-	-	-	2.8	-	-	-	-	-	-	-	-
117.0 70.0	-	3.1	-	0.0	-	-	0.0	-	-	0.0	-	-

*Lestidiops ringens*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 70.0	-	-	2.8	-	-	-	-	-	-	0.0	-	-
60.0 120.0	0.0	-	0.0	-	-	-	-	-	-	2.7	-	-
60.0 160.0	0.0	-	0.0	-	-	-	-	-	-	2.9	-	-
60.0 180.0	0.0	-	2.9	-	-	-	-	-	-	0.0	-	-
70.0 200.0	0.0	-	0.0	-	-	-	-	-	-	5.4	-	-
80.0 100.0	3.0	-	-	-	-	-	-	3.0	-	0.0	-	-
80.0 120.0	0.0	-	2.8	-	-	-	-	2.6	-	3.6	-	-
80.0 130.0	-	-	-	-	-	-	-	5.1	-	-	-	-
80.0 180.0	-	-	-	-	-	-	-	2.0	-	-	-	-
80.0 190.0	-	-	-	-	-	-	-	7.9	-	-	-	-
80.0 200.0	2.8	-	-	-	-	-	-	2.6	-	-	-	-
83.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
83.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
87.0 55.0	-	5.7	-	0.0	-	-	0.0	-	-	5.3	-	-
87.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
87.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	5.1	-	-
90.0 80.0	0.0	-	-	0.0	-	-	3.0	-	-	2.5	-	-
90.0 90.0	0.0	-	-	0.0	-	-	-	0.0	-	2.8	-	-
90.0 100.0	0.0	-	-	8.9	-	-	-	5.5	-	0.0	-	-
90.0 120.0	0.0	-	-	0.0	-	-	-	0.0	-	2.8	-	-
90.0 180.0	5.7	-	-	5.9	-	-	-	0.0	-	0.0	-	-
93.0 45.0	-	0.0	-	2.7	-	-	0.0	0.0	-	0.0	-	-
93.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
93.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
93.0 90.0	-	0.0	-	5.7	-	-	0.0	-	-	5.5	-	-
93.0 100.0	-	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
97.0 50.0	-	2.9	-	0.0	-	-	5.0	-	-	2.9	-	-
97.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
100.0 45.0	-	0.0	-	0.0	-	-	8.2	-	-	0.0	0.0	-
100.0 50.0	-	0.0	-	0.0	-	-	2.7	-	-	-	2.9	-
100.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	-	0.0	-
100.0 60.0	-	0.0	-	0.0	-	-	4.7	-	-	-	0.0	-
100.0 70.0	-	0.0	-	0.0	-	-	4.8	-	-	-	0.0	-
100.0 80.0	-	0.0	-	2.9	-	-	4.7	-	-	-	2.7	-
100.0 90.0	-	3.0	-	0.0	-	-	0.0	-	-	-	2.8	-
100.0 100.0	-	0.0	-	0.0	-	-	12.0	-	-	-	2.5	-
103.0 45.0	-	3.1	-	0.0	-	-	-	-	-	-	-	-
103.0 50.0	-	3.0	-	3.0	-	-	0.0	-	-	0.0	-	-



TABLE 4. (cont.)

*Lestidiops ringens* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0 60.0	-	0.0	-	0.0	-	-	5.3	-	-	0.0	-	-
103.0 70.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
103.0 80.0	-	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0 60.0	-	0.0	-	2.7	-	-	0.0	-	-	2.8	-	-
107.0 90.0	-	6.2	-	-	-	-	0.0	-	-	0.0	-	-
110.0 35.0	-	0.0	-	2.9	-	-	0.0	-	-	-	0.0	-
110.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	-	5.2	-
110.0 50.0	-	0.0	-	6.0	-	-	3.0	-	-	-	5.2	-
110.0 55.0	-	0.0	-	2.8	-	-	0.0	-	-	-	2.3	-
110.0 60.0	-	5.5	-	0.0	-	-	0.0	-	-	-	2.4	-
110.0 65.0	-	0.0	-	2.5	-	-	0.0	-	-	-	0.0	-
110.0 70.0	-	5.3	-	0.0	-	-	0.0	-	-	-	0.0	-
110.0 80.0	-	3.0	-	2.5	-	-	0.0	-	-	-	0.0	-
110.0 90.0	-	2.5	-	0.0	-	-	0.0	-	-	-	0.0	-
113.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
113.0 50.0	-	0.0	-	6.1	-	-	0.0	-	-	0.0	-	-
113.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
113.0 80.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
113.0 90.0	-	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0 55.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
117.0 90.0	-	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
127.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
133.0 25.0	-	0.0	-	2.6	-	-	-	-	-	0.0	-	-

*Notolepis risso*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 160.0	0.0	-	2.9	-	-	-	-	-	-	2.9	-	-
60.0 180.0	0.0	-	0.0	-	-	-	-	-	-	2.8	-	-
90.0 80.0	0.0	-	-	2.7	-	-	-	0.0	-	0.0	-	-
90.0 90.0	0.0	-	-	3.0	-	-	-	0.0	-	0.0	-	-
90.0 100.0	0.0	-	-	2.8	-	-	-	0.0	-	0.0	-	-
90.0 120.0	0.0	-	-	0.0	-	-	-	2.4	-	0.0	-	-
90.0 140.0	0.0	-	-	2.6	-	-	-	0.0	-	0.0	-	-
93.0 65.0	-	0.0	-	8.6	-	-	0.0	-	-	0.0	-	-
93.0 100.0	-	0.0	-	5.5	-	-	0.0	-	-	0.0	-	-
97.0 50.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
97.0 55.0	-	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-

*Stemonosudis macrura*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0 150.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 160.0	0.0	-	-	0.0	-	-	-	0.0	-	2.8	-	-

TABLE 4. (cont.)

*Stemonosudis macrura* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
130.0 90.0	-	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-
133.0 80.0	-	5.8	-	0.0	-	-	-	-	-	0.0	-	-
137.0 80.0	-	2.6	-	0.0	-	-	-	-	-	-	0.0	-

*Sudis atrox*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0 180.0	0.0	-	-	2.7	-	-	-	2.4	-	0.0	-	-
90.0 200.0	0.0	-	-	0.0	-	-	-	2.4	-	0.0	-	-
110.0 160.0	-	-	-	2.7	-	-	-	-	-	-	-	-

*Scopelosaurus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0 80.0	0.0	-	-	2.7	-	-	-	0.0	-	0.0	-	-
93.0 90.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
97.0 90.0	-	0.0	-	0.0	-	-	3.2	-	-	0.0	-	-
100.0 55.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
100.0 65.0	-	0.0	-	2.9	-	-	0.0	-	-	-	0.0	-
100.0 80.0	-	0.0	-	2.6	-	-	0.0	-	-	-	0.0	-
100.0 90.0	-	0.0	-	5.6	-	-	0.0	-	-	-	0.0	-
100.0 160.0	-	-	-	8.0	-	-	-	-	-	-	-	-
107.0 60.0	-	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
110.0 70.0	-	0.0	-	2.7	-	-	0.0	-	-	-	0.0	-

*Scopelarchidae*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 140.0	0.0	-	0.0	-	-	-	-	-	-	2.6	-	-
60.0 160.0	0.0	-	0.0	-	-	-	-	-	-	2.9	-	-
60.0 180.0	5.3	-	0.0	-	-	-	-	-	-	2.8	-	-
60.0 200.0	3.0	-	0.0	-	-	-	-	-	-	0.0	-	-
80.0 140.0	-	-	-	-	-	-	-	2.5	-	-	-	-
80.0 150.0	-	-	-	-	-	-	-	5.5	-	-	-	-
80.0 160.0	-	-	-	-	-	-	-	8.4	-	-	-	-
80.0 200.0	8.5	-	-	0.0	-	-	-	0.0	-	0.0	-	-
90.0 90.0	0.0	-	-	3.0	-	-	-	0.0	-	0.0	-	-
90.0 110.0	-	-	-	-	-	-	-	5.1	-	-	-	-
90.0 120.0	0.0	-	-	0.0	-	-	-	4.8	-	2.9	-	-
90.0 130.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 140.0	0.0	-	-	0.0	-	-	-	2.5	-	2.6	-	-
90.0 160.0	3.0	-	-	0.0	-	-	-	0.0	-	0.0	-	-

TABLE 4. (cont.)

## Scopelarchidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0 180.0	2.9	-	-	0.0	-	-	-	0.0	-	2.6	-	-
90.0 200.0	2.3	-	-	0.0	-	-	-	0.0	-	2.7	-	-
93.0 90.0	-	0.0	-	2.8	-	-	0.0	0.0	-	2.5	-	-
93.0 100.0	-	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
100.0 45.0	-	2.9	-	0.0	-	-	0.0	-	-	-	0.0	-
100.0 50.0	-	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-
100.0 55.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
100.0 100.0	-	5.3	-	0.0	-	-	-	-	-	-	0.0	-
103.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	8.0	-	-
103.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	8.1	-	-
103.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	13.8	-	-
107.0 45.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
107.0 60.0	-	3.0	-	0.0	-	-	0.0	-	-	2.8	-	-
107.0 65.0	-	3.0	-	0.0	-	-	0.0	-	-	2.5	-	-
110.0 55.0	-	0.0	-	2.8	-	-	0.0	-	-	-	0.0	-
110.0 65.0	-	0.0	-	0.0	-	-	2.6	-	-	-	2.3	-
110.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	-	0.0	-
110.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	-	8.7	-
113.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	8.5	-	-
113.0 80.0	-	0.0	-	0.0	-	-	2.9	-	-	5.6	-	-
117.0 80.0	-	0.0	-	2.3	-	-	2.7	-	-	0.0	-	-
117.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
120.0 50.0	-	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
120.0 55.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
120.0 60.0	-	0.0	-	0.0	-	-	2.5	-	-	-	0.0	-
120.0 70.0	-	0.0	-	0.0	-	-	4.8	-	-	-	0.0	-
120.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
123.0 50.0	-	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
123.0 80.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
127.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
127.0 80.0	-	0.0	-	0.0	-	-	3.0	-	-	-	0.0	-
130.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	-	8.0	-
130.0 80.0	-	0.0	-	0.0	-	-	-	-	-	-	-	-
133.0 40.0	-	0.0	-	2.7	-	-	-	-	-	3.0	-	-
137.0 70.0	-	5.8	-	0.0	-	-	-	-	-	-	0.0	-

## Myctophidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 160.0	0.0	-	0.0	-	-	-	-	-	-	2.9	-	-
60.0 180.0	0.0	-	2.9	-	-	-	-	-	-	2.8	-	-
60.0 200.0	0.0	-	2.8	-	-	-	-	-	-	5.6	-	-
70.0 200.0	0.0	-	0.0	-	-	-	-	12.8	-	5.4	-	-
80.0 130.0	-	-	-	-	-	-	-	2.7	-	-	-	-
80.0 150.0	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

## Myctophidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 160.0	-	-	-	-	-	-	-	5.6	-	-	-	-
80.0 170.0	-	-	-	-	-	-	-	34.6	-	-	-	-
80.0 180.0	-	-	-	-	-	-	-	6.1	-	-	-	-
80.0 190.0	-	-	-	-	-	-	-	5.3	-	-	-	-
83.0 65.0	-	2.6	-	0.0	-	-	0.0	-	-	0.0	-	-
83.0 80.0	-	0.0	-	0.0	-	-	5.1	-	-	0.0	-	-
87.0 40.0	-	0.0	-	0.0	-	-	5.8	-	-	0.0	-	-
87.0 70.0	-	2.6	-	0.0	-	-	0.0	-	-	0.0	-	-
90.0 30.0	-	-	-	-	-	-	-	2.9	-	-	-	-
90.0 50.0	-	-	-	-	-	-	-	2.7	-	-	-	-
90.0 80.0	0.0	-	-	0.0	-	-	-	2.7	-	0.0	-	-
90.0 90.0	0.0	-	-	11.9	-	-	-	5.5	-	0.0	-	-
90.0 120.0	2.6	-	-	0.0	-	-	-	0.0	-	0.0	-	-
90.0 130.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 140.0	2.9	-	-	0.0	-	-	-	2.5	-	0.0	-	-
90.0 150.0	-	-	-	-	-	-	-	7.5	-	-	-	-
90.0 160.0	8.9	-	-	0.0	-	-	-	15.1	-	0.0	-	-
90.0 180.0	5.7	-	-	0.0	-	-	-	0.0	-	2.6	-	-
90.0 200.0	0.0	-	-	2.8	-	-	-	0.0	-	0.0	-	-
93.0 28.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
93.0 30.0	-	0.0	-	0.0	-	-	9.2	-	-	0.0	-	-
93.0 35.0	-	0.0	-	0.0	-	-	2.9	-	-	0.0	-	-
93.0 40.0	-	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
93.0 45.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
93.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	5.3	-	-
93.0 70.0	-	8.8	-	0.0	-	-	0.0	-	-	0.0	-	-
93.0 80.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
93.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
97.0 30.0	-	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
97.0 32.0	-	0.0	-	0.0	-	-	-	-	-	2.8	-	-
97.0 50.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
97.0 55.0	-	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
97.0 65.0	-	2.5	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0 70.0	-	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0 80.0	-	5.9	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0 90.0	-	0.0	-	3.0	-	-	9.7	-	-	2.6	-	-
100.0 35.0	-	0.0	-	0.0	-	-	2.8	-	-	-	0.0	-
100.0 40.0	-	0.0	-	0.0	-	-	3.4	-	-	-	0.0	-
100.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.7	-
100.0 55.0	-	0.0	-	0.0	-	-	4.7	-	-	-	0.0	-
100.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-
100.0 100.0	-	0.0	-	0.0	-	-	-	-	-	-	2.5	-
103.0 35.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
103.0 60.0	-	0.0	-	0.0	-	-	5.3	-	-	0.0	-	-
103.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
107.0 32.0	-	0.0	-	0.0	-	-	0.0	-	-	5.8	-	-

TABLE 4. (cont.)

Myctophidae (cont.)												
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	40.0	0.0	-	8.8	-	-	0.0	-	-	2.9	-	-
107.0	55.0	2.4	-	2.8	-	-	0.0	-	-	0.0	-	-
107.0	60.0	3.0	-	2.7	-	-	3.3	-	-	0.0	-	-
107.0	65.0	3.0	-	0.0	-	-	0.0	-	-	2.5	-	-
107.0	90.0	6.2	-	-	-	-	0.0	-	-	0.0	-	-
110.0	35.0	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
110.0	45.0	0.0	-	5.5	-	-	0.0	-	-	-	0.0	-
110.0	55.0	0.0	-	8.3	-	-	5.0	-	-	-	0.0	-
110.0	70.0	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
110.0	80.0	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-
110.0	90.0	0.0	-	0.0	-	-	2.3	-	-	-	0.0	-
110.0	100.0	0.0	-	2.7	-	-	-	-	-	-	0.0	-
110.0	140.0	-	-	5.6	-	-	-	-	-	-	-	-
110.0	160.0	-	-	5.3	-	-	-	-	-	-	-	-
113.0	30.0	0.0	-	0.0	-	-	2.1	-	-	0.0	-	-
113.0	50.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
113.0	55.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
113.0	60.0	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
113.0	70.0	0.0	-	5.9	-	-	0.0	-	-	0.0	-	-
113.0	80.0	0.0	-	0.0	-	-	5.8	-	-	0.0	-	-
115.0	35.0	0.0	-	-	2.5	-	0.0	-	-	-	0.0	-
117.0	50.0	0.0	-	5.7	-	-	0.0	-	-	0.0	-	-
117.0	55.0	0.0	-	8.5	-	-	2.7	-	-	0.0	-	-
117.0	65.0	0.0	-	0.0	-	-	7.5	-	-	0.0	-	-
117.0	80.0	0.0	-	2.3	-	-	8.0	-	-	0.0	-	-
117.0	90.0	0.0	-	0.0	-	-	4.8	-	-	5.9	-	-
120.0	60.0	0.0	-	0.0	-	-	16.9	-	-	-	0.0	-
120.0	65.0	0.0	-	0.0	-	-	12.8	-	-	-	0.0	-
120.0	70.0	0.0	-	0.0	-	-	9.8	-	-	-	0.0	-
120.0	80.0	0.0	-	0.0	-	-	5.0	-	-	-	0.0	-
120.0	90.0	10.6	-	0.0	-	-	12.0	-	-	-	0.0	-
120.0	100.0	2.9	-	0.0	-	-	-	-	-	-	0.0	-
123.0	42.0	0.0	-	2.7	-	-	10.3	-	-	0.0	-	-
123.0	60.0	0.0	-	2.9	-	-	2.4	-	-	0.0	-	-
123.0	65.0	2.7	-	2.9	-	-	2.3	-	-	0.0	-	-
123.0	70.0	0.0	-	6.1	-	-	0.0	-	-	0.0	-	-
123.0	80.0	2.8	-	0.0	-	-	7.8	-	-	0.0	-	-
127.0	45.0	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0	50.0	0.0	-	5.9	-	-	0.0	-	-	0.0	-	-
127.0	60.0	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0	65.0	8.8	-	0.0	-	-	14.6	-	-	0.0	-	-
127.0	70.0	0.0	-	0.0	-	-	7.6	-	-	0.0	-	-
127.0	80.0	0.0	-	17.6	-	-	0.0	-	-	0.0	-	-
130.0	30.0	2.7	-	0.0	-	-	8.8	-	-	-	0.0	-
130.0	35.0	0.0	-	0.0	-	-	3.0	-	-	-	0.0	-
130.0	40.0	0.0	-	0.0	-	-	-	-	-	-	0.0	-



TABLE 4. (cont.)

## Myctophidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0 45.0	-	0.0	-	0.0	-	-	14.1	-	-	-	0.0	-
130.0 50.0	-	0.0	-	9.0	-	-	0.0	-	-	-	0.0	-
130.0 55.0	-	0.0	-	0.0	-	-	5.4	-	-	-	0.0	-
130.0 60.0	-	0.0	-	7.9	-	-	0.0	-	-	-	0.0	-
130.0 70.0	-	11.9	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0 80.0	-	0.0	-	0.0	-	-	7.8	-	-	-	2.7	-
130.0 120.0	-	5.9	-	0.0	-	-	-	-	-	-	0.0	-
133.0 25.0	-	0.0	-	34.3	-	-	-	-	-	0.0	-	-
133.0 30.0	-	2.9	-	0.0	-	-	-	-	-	0.0	-	-
133.0 40.0	-	5.2	-	0.0	-	-	-	-	-	0.0	-	-
133.0 45.0	-	8.2	-	2.7	-	-	-	-	-	0.0	-	-
133.0 50.0	-	0.0	-	8.6	-	-	-	-	-	0.0	-	-
133.0 55.0	-	2.7	-	2.7	-	-	-	-	-	0.0	-	-
137.0 35.0	-	14.5	-	0.0	-	-	-	-	-	-	0.0	-
137.0 45.0	-	8.1	-	0.0	-	-	-	-	-	-	0.0	-
137.0 50.0	-	2.7	-	2.8	-	-	-	-	-	-	0.0	-
137.0 55.0	-	8.6	-	0.0	-	-	-	-	-	-	0.0	-
137.0 70.0	-	5.8	-	5.2	-	-	-	-	-	-	0.0	-
137.0 80.0	-	7.8	-	0.0	-	-	-	-	-	-	0.0	-
140.0 35.0	-	2.5	-	5.7	-	-	-	-	-	-	0.0	-
140.0 40.0	-	2.6	-	0.0	-	-	-	-	-	-	0.0	-
140.0 45.0	-	0.0	-	7.8	-	-	-	-	-	-	0.0	-
140.0 50.0	-	0.0	-	2.6	-	-	-	-	-	-	0.0	-

## Ceratoscopelus townsendi

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 90.0	-	-	0.0	-	-	-	-	-	-	2.2	-	-
60.0 120.0	1.8	-	0.0	-	-	-	-	-	-	0.0	-	-
60.0 140.0	0.0	-	0.0	-	-	-	-	-	-	2.6	-	-
60.0 160.0	0.0	-	2.9	-	-	-	-	-	-	25.8	-	-
60.0 180.0	0.0	-	0.0	-	-	-	-	-	-	22.7	-	-
60.0 200.0	0.0	-	19.4	-	-	-	-	-	-	2.8	-	-
70.0 120.0	0.0	-	3.1	-	-	-	-	-	-	-	-	-
70.0 200.0	13.0	-	25.6	-	-	-	-	-	-	42.9	-	-
80.0 90.0	0.0	-	0.0	-	-	-	-	0.0	-	13.4	-	-
80.0 120.0	0.0	-	2.8	-	-	-	-	7.8	-	0.0	-	-
80.0 140.0	-	-	-	-	-	-	-	5.0	-	-	-	-
80.0 150.0	-	-	-	-	-	-	-	10.9	-	-	-	-
80.0 160.0	-	-	-	-	-	-	-	140.0	-	-	-	-
80.0 170.0	-	-	-	-	-	-	-	18.6	-	-	-	-
80.0 180.0	-	-	-	-	-	-	-	22.4	-	-	-	-
80.0 190.0	-	-	-	-	-	-	-	50.0	-	-	-	-
80.0 200.0	8.5	-	-	0.0	-	-	-	112.2	-	7.9	-	-
83.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	5.6	-	-

TABLE 4. (cont.)

*Ceratoscopelus townsendi* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	80.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
83.0	90.0	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
90.0	65.0	-	-	0.0	-	-	-	-	-	5.6	-	-
90.0	90.0	0.0	-	0.0	-	-	-	5.5	-	0.0	-	-
90.0	100.0	0.0	-	2.8	-	-	-	10.6	-	0.0	-	-
90.0	110.0	-	-	-	-	-	-	36.0	-	-	-	-
90.0	120.0	-	-	0.0	-	-	-	80.9	-	2.9	-	-
90.0	130.0	-	-	-	-	-	-	15.1	-	-	-	-
90.0	140.0	-	-	0.0	-	-	-	12.3	-	2.6	-	-
90.0	150.0	-	-	-	-	-	-	150.6	-	-	-	-
90.0	160.0	-	-	8.8	-	-	-	135.5	-	19.3	-	-
90.0	170.0	-	-	16.1	-	-	-	24.7	-	-	-	-
90.0	180.0	-	-	55.2	-	-	-	4.8	-	18.5	-	-
90.0	200.0	-	-	3.0	-	-	-	4.8	-	8.1	-	-
93.0	80.0	5.5	-	5.7	-	-	0.0	-	-	0.0	-	-
93.0	90.0	0.0	-	0.0	-	-	2.7	-	-	7.6	-	-
93.0	100.0	0.0	-	3.2	-	-	5.0	-	-	17.2	-	-
97.0	70.0	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0	80.0	3.0	-	0.0	-	-	19.1	-	-	0.0	-	-
97.0	90.0	0.0	-	3.0	-	-	16.2	-	-	2.6	-	-
100.0	40.0	0.0	-	0.0	-	-	3.4	-	-	-	0.0	-
100.0	45.0	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
100.0	55.0	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
100.0	60.0	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
100.0	65.0	0.0	-	0.0	-	-	4.7	-	-	-	0.0	-
100.0	70.0	0.0	-	0.0	-	-	11.8	-	-	-	0.0	-
100.0	80.0	0.0	-	0.0	-	-	43.5	-	-	-	5.4	-
100.0	90.0	0.0	-	5.6	-	-	28.8	-	-	-	0.0	-
100.0	100.0	0.0	-	2.6	-	-	-	-	-	-	4.9	-
100.0	120.0	0.0	-	68.1	-	-	-	-	-	-	5.7	-
100.0	140.0	7.9	-	11.0	-	-	-	-	-	-	-	-
100.0	160.0	-	-	42.4	-	-	-	-	-	-	-	-
103.0	35.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
103.0	45.0	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
103.0	65.0	0.0	-	0.0	-	-	0.0	-	-	24.0	-	-
103.0	70.0	0.0	-	0.0	-	-	0.0	-	-	37.7	-	-
103.0	80.0	3.0	-	0.0	-	-	3.0	-	-	107.3	-	-
103.0	90.0	0.0	-	-	-	-	5.9	-	-	8.0	-	-
107.0	55.0	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
107.0	65.0	0.0	-	0.0	-	-	0.0	-	-	9.9	-	-
107.0	70.0	0.0	-	0.0	-	-	0.0	-	-	8.6	-	-
107.0	80.0	0.0	-	0.0	-	-	0.0	-	-	5.5	-	-
107.0	90.0	0.0	-	-	-	-	0.0	-	-	2.7	-	-
110.0	45.0	0.0	-	0.0	-	-	0.0	-	-	-	2.7	-
110.0	55.0	0.0	-	0.0	-	-	0.0	-	-	-	2.3	-
110.0	80.0	6.0	-	0.0	-	-	0.0	-	-	-	13.9	-

TABLE 4. (cont.)

*Ceratoscopelus townsendi* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	90.0	0.0	-	0.0	-	-	2.3	-	-	-	11.6	-
110.0	100.0	10.2	-	0.0	-	-	-	-	-	-	5.4	-
110.0	120.0	0.0	-	2.3	-	-	-	-	-	-	8.6	-
110.0	140.0	-	-	13.9	-	-	-	-	-	-	-	-
110.0	160.0	-	-	21.2	-	-	-	-	-	-	-	-
113.0	40.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
113.0	50.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
113.0	60.0	0.0	-	0.0	-	-	0.0	-	-	8.0	-	-
113.0	65.0	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
113.0	80.0	0.0	-	0.0	-	-	2.9	-	-	25.1	-	-
113.0	90.0	5.8	-	11.6	-	-	2.2	-	-	42.4	-	-
117.0	26.0	0.0	-	0.0	-	-	0.0	-	-	2.0	-	-
117.0	55.0	3.1	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0	80.0	0.0	-	0.0	-	-	13.4	-	-	0.0	-	-
117.0	90.0	0.0	-	0.0	-	-	167.3	-	-	8.9	-	-
120.0	45.0	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-
120.0	50.0	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
120.0	55.0	0.0	-	0.0	-	-	13.4	-	-	-	0.0	-
120.0	60.0	0.0	-	0.0	-	-	9.7	-	-	-	0.0	-
120.0	65.0	0.0	-	2.6	-	-	10.2	-	-	-	0.0	-
120.0	70.0	0.0	-	0.0	-	-	4.9	-	-	-	0.0	-
120.0	80.0	0.0	-	0.0	-	-	2.5	-	-	-	0.0	-
120.0	90.0	0.0	-	0.0	-	-	112.3	-	-	-	0.0	-
120.0	120.0	0.0	-	8.3	-	-	-	-	-	-	0.0	-
123.0	42.0	0.0	-	0.0	-	-	5.2	-	-	0.0	-	-
123.0	45.0	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
123.0	50.0	0.0	-	0.0	-	-	7.9	-	-	0.0	-	-
123.0	60.0	0.0	-	0.0	-	-	7.2	-	-	0.0	-	-
123.0	70.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
123.0	80.0	0.0	-	0.0	-	-	96.2	-	-	0.0	-	-
127.0	45.0	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
127.0	60.0	0.0	-	0.0	-	-	4.9	-	-	0.0	-	-
127.0	70.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
130.0	35.0	0.0	-	0.0	-	-	2.9	-	-	-	0.0	-
130.0	40.0	0.0	-	0.0	-	-	3.0	-	-	-	0.0	-
130.0	50.0	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
130.0	70.0	0.0	-	0.0	-	-	12.8	-	-	-	0.0	-
130.0	80.0	0.0	-	0.0	-	-	10.4	-	-	-	0.0	-
130.0	90.0	2.6	-	0.0	-	-	5.1	-	-	-	0.0	-
130.0	100.0	0.0	-	2.8	-	-	-	-	-	-	10.1	-
130.0	120.0	11.8	-	0.0	-	-	-	-	-	0.0	-	-
133.0	65.0	0.0	-	2.9	-	-	-	-	-	2.7	-	-
133.0	80.0	0.0	-	0.0	-	-	-	-	-	-	0.0	-
137.0	50.0	2.9	-	2.8	-	-	-	-	-	-	0.0	-
140.0	35.0	0.0	-	2.8	-	-	-	-	-	-	0.0	-

TABLE 4. (cont.)

*Diaphus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 180.0	0.0	-	0.0	-	-	-	-	-	-	8.5	-	-
70.0 90.0	0.0	-	0.0	-	-	-	-	-	-	2.6	-	-
70.0 200.0	0.0	-	0.0	-	-	-	-	-	-	8.0	-	-
80.0 60.0	0.0	-	0.0	-	-	-	-	0.0	-	7.7	-	-
80.0 70.0	0.0	-	0.0	-	-	-	-	5.2	-	0.0	-	-
80.0 80.0	0.0	-	0.0	-	-	-	-	0.0	-	3.0	-	-
80.0 110.0	-	-	-	-	-	-	-	2.9	-	-	-	-
80.0 130.0	-	-	-	-	-	-	-	2.5	-	-	-	-
80.0 140.0	-	-	-	-	-	-	-	5.0	-	-	-	-
80.0 150.0	-	-	-	-	-	-	-	8.2	-	-	-	-
80.0 160.0	-	-	-	-	-	-	-	2.8	-	-	-	-
80.0 180.0	-	-	-	-	-	-	-	2.0	-	-	-	-
80.0 190.0	-	-	-	-	-	-	-	7.9	-	-	-	-
80.0 200.0	0.0	-	-	0.0	-	-	-	5.2	-	0.0	-	-
83.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	2.4	-	-
83.0 70.0	-	0.0	-	0.0	-	-	33.6	-	-	2.6	-	-
83.0 80.0	-	0.0	-	0.0	-	-	15.2	-	-	5.3	-	-
83.0 90.0	-	0.0	-	0.0	-	-	18.6	-	-	0.0	-	-
87.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
87.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	5.1	-	-
87.0 70.0	-	0.0	-	0.0	-	-	14.9	-	-	0.0	-	-
87.0 80.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
87.0 90.0	-	0.0	-	0.0	-	-	3.0	-	-	0.0	-	-
90.0 50.0	-	-	-	-	-	-	-	2.7	-	-	-	-
90.0 65.0	-	-	-	-	-	-	-	-	-	2.8	-	-
90.0 80.0	0.0	-	-	0.0	-	-	-	21.4	-	0.0	-	-
90.0 90.0	0.0	-	-	0.0	-	-	-	2.7	-	0.0	-	-
90.0 100.0	0.0	-	-	0.0	-	-	-	5.3	-	0.0	-	-
90.0 110.0	-	-	-	-	-	-	-	51.4	-	-	-	-
90.0 120.0	0.0	-	-	-	-	-	-	9.5	-	0.0	-	-
90.0 140.0	0.0	-	-	-	-	-	-	4.9	-	0.0	-	-
90.0 150.0	-	-	-	-	-	-	-	7.5	-	-	-	-
90.0 160.0	0.0	-	-	0.0	-	-	-	5.0	-	0.0	-	-
90.0 180.0	0.0	-	-	5.4	-	-	-	4.8	-	0.0	-	-
90.0 200.0	0.0	-	-	0.0	-	-	-	0.0	-	5.4	-	-
93.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
93.0 70.0	-	0.0	-	0.0	-	-	5.4	-	-	0.0	-	-
93.0 80.0	-	0.0	-	0.0	-	-	7.6	-	-	0.0	-	-
93.0 90.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
93.0 100.0	-	0.0	-	0.0	-	-	15.1	-	-	2.9	-	-
97.0 45.0	-	0.0	-	0.0	-	-	9.0	-	-	0.0	-	-
100.0 40.0	-	0.0	-	0.0	-	-	10.1	-	-	-	0.0	-
100.0 55.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
100.0 70.0	-	0.0	-	0.0	-	-	16.6	-	-	-	2.7	-
100.0 140.0	-	-	-	5.5	-	-	-	-	-	-	-	-
103.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-

TABLE 4. (cont.)

*Diaphus* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
1107.0 90.0	-	0.0	-	-	-	-	0.0	-	-	2.7	-	-
1110.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-
1117.0 45.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
123.0 80.0	-	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
127.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-

*Lampadena urophaos*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 170.0	-	-	-	-	-	-	-	2.7	-	-	-	-
80.0 190.0	-	-	-	-	-	-	-	2.6	-	-	-	-
90.0 140.0	0.0	-	-	0.0	-	-	-	4.9	-	0.0	-	-
90.0 150.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 160.0	0.0	-	-	0.0	-	-	-	2.5	-	0.0	-	-
90.0 170.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 200.0	0.0	-	-	8.3	-	-	-	0.0	-	0.0	-	-
97.0 90.0	-	0.0	-	0.0	-	-	6.5	-	-	0.0	-	-
100.0 70.0	-	0.0	-	2.9	-	-	0.0	-	-	-	0.0	-
100.0 90.0	-	0.0	-	0.0	-	-	9.6	-	-	-	0.0	-
103.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	8.0	-	-
103.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	21.5	-	-
103.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	22.0	-	-
103.0 90.0	-	0.0	-	-	-	-	14.8	-	-	2.7	-	-
107.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	5.7	-	-
107.0 90.0	-	0.0	-	-	-	-	0.0	-	-	2.7	-	-
110.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.7	-
110.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	-	5.6	-
110.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	-	11.6	-
113.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	5.3	-	-
113.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
113.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	10.6	-	-
117.0 90.0	-	0.0	-	0.0	-	-	14.3	-	-	0.0	-	-
120.0 40.0	-	0.0	-	0.0	-	-	13.2	-	-	0.0	-	-
120.0 60.0	-	0.0	-	0.0	-	-	9.7	-	-	-	0.0	-
120.0 65.0	-	0.0	-	0.0	-	-	2.5	-	-	-	0.0	-
120.0 70.0	-	0.0	-	2.8	-	-	0.0	-	-	-	0.0	-
120.0 80.0	-	0.0	-	0.0	-	-	2.5	-	-	-	0.0	-
120.0 90.0	-	0.0	-	0.0	-	-	23.9	-	-	-	0.0	-
120.0 120.0	-	0.0	-	2.8	-	-	-	-	-	-	0.0	-
123.0 50.0	-	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
123.0 60.0	-	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
123.0 70.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
123.0 80.0	-	0.0	-	0.0	-	-	13.0	-	-	0.0	-	-
127.0 60.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
127.0 65.0	-	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-



TABLE 4. (cont.)

*Lampadena urophaos* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0 35.0	-	0.0	-	0.0	-	-	2.9	-	-	-	0.0	-
130.0 70.0	-	0.0	-	2.5	-	-	0.0	-	-	-	0.0	-
130.0 80.0	-	0.0	-	0.0	-	-	10.4	-	-	-	2.7	-
130.0 90.0	-	0.0	-	2.6	-	-	2.6	-	-	-	0.0	-
133.0 70.0	-	0.0	-	0.0	-	-	-	-	-	5.3	-	-
137.0 60.0	-	0.0	-	5.6	-	-	-	-	-	-	0.0	-

*Lampanyctus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 90.0	-	-	9.2	-	-	-	-	-	-	0.0	-	-
60.0 120.0	0.0	-	2.7	-	-	-	-	-	-	0.0	-	-
60.0 160.0	0.0	-	8.7	-	-	-	-	-	-	5.7	-	-
60.0 180.0	0.0	-	5.8	-	-	-	-	-	-	5.7	-	-
60.0 200.0	0.0	-	13.9	-	-	-	-	-	-	0.0	-	-
63.0 52.0	0.0	-	4.4	-	-	-	-	-	-	0.0	-	-
63.0 60.0	0.0	-	2.5	-	-	-	-	-	-	0.0	-	-
70.0 100.0	0.0	-	3.0	-	-	-	-	-	-	-	-	-
70.0 120.0	0.0	-	3.1	-	-	-	-	-	-	-	-	-
70.0 200.0	0.0	-	11.4	-	-	-	-	-	-	5.4	-	-
80.0 100.0	3.0	-	2.8	-	-	-	-	0.0	-	0.0	-	-
80.0 140.0	0.0	-	-	-	-	-	-	2.5	-	0.0	-	-
80.0 150.0	-	-	-	-	-	-	-	2.7	-	-	-	-
80.0 160.0	-	-	-	-	-	-	-	8.4	-	-	-	-
80.0 170.0	-	-	-	-	-	-	-	10.6	-	-	-	-
80.0 180.0	-	-	-	-	-	-	-	2.0	-	-	-	-
80.0 190.0	-	-	-	-	-	-	-	5.3	-	-	-	-
80.0 200.0	8.5	-	-	22.5	-	-	-	5.2	-	5.3	-	-
83.0 55.0	-	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
83.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
87.0 45.0	-	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
90.0 80.0	0.0	-	-	8.2	-	-	-	0.0	-	0.0	-	-
90.0 110.0	-	-	-	-	-	-	-	2.6	-	-	-	-
90.0 120.0	0.0	-	-	0.0	-	-	-	9.5	-	2.9	-	-
90.0 130.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 140.0	2.9	-	-	5.2	-	-	-	0.0	-	5.2	-	-
90.0 150.0	-	-	-	-	-	-	-	15.1	-	-	-	-
90.0 160.0	3.0	-	-	23.4	-	-	-	37.7	-	0.0	-	-
90.0 170.0	-	-	-	-	-	-	-	7.4	-	-	-	-
90.0 180.0	5.7	-	-	21.4	-	-	-	7.2	-	0.0	-	-
90.0 200.0	0.0	-	-	41.4	-	-	-	0.0	-	2.7	-	-
93.0 35.0	-	0.0	-	0.0	-	-	2.9	-	-	0.0	-	-
93.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
97.0 70.0	-	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-

TABLE 4. (cont.)

*Lampanyctus* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	80.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
97.0	90.0	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
100.0	65.0	0.0	-	0.0	-	-	0.0	-	-	-	2.9	-
100.0	120.0	0.0	-	31.8	-	-	-	-	-	-	0.0	-
100.0	140.0	-	-	2.8	-	-	-	-	-	-	-	-
100.0	160.0	-	-	31.8	-	-	-	-	-	-	-	-
103.0	65.0	0.0	-	0.0	-	-	0.0	-	-	5.3	-	-
103.0	80.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
103.0	90.0	0.0	-	-	-	-	3.0	-	-	0.0	-	-
107.0	70.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
107.0	80.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
110.0	80.0	0.0	-	9.9	-	-	0.0	-	-	-	0.0	-
110.0	120.0	3.4	-	0.0	-	-	-	-	-	-	0.0	-
110.0	160.0	-	-	13.3	-	-	-	-	-	-	-	-
113.0	40.0	0.0	-	12.3	-	-	0.0	-	-	0.0	-	-
113.0	45.0	0.0	-	20.9	-	-	0.0	-	-	0.0	-	-
113.0	55.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
113.0	60.0	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
113.0	65.0	0.0	-	21.0	-	-	0.0	-	-	0.0	-	-
113.0	70.0	0.0	-	20.7	-	-	0.0	-	-	0.0	-	-
113.0	80.0	2.7	-	11.4	-	-	0.0	-	-	0.0	-	-
113.0	90.0	0.0	-	8.7	-	-	0.0	-	-	8.0	-	-
117.0	50.0	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
117.0	55.0	0.0	-	25.5	-	-	0.0	-	-	0.0	-	-
117.0	60.0	0.0	-	7.2	-	-	0.0	-	-	0.0	-	-
117.0	65.0	0.0	-	0.0	-	-	0.0	-	-	5.7	-	-
117.0	80.0	14.9	-	0.0	-	-	0.0	-	-	2.7	-	-
117.0	90.0	0.0	-	9.0	-	-	16.7	-	-	0.0	-	-
120.0	60.0	0.0	-	2.9	-	-	2.4	-	-	-	0.0	-
120.0	65.0	0.0	-	0.0	-	-	0.0	-	-	-	2.6	-
120.0	70.0	0.0	-	11.0	-	-	0.0	-	-	-	0.0	-
120.0	80.0	5.0	-	0.0	-	-	0.0	-	-	-	2.6	-
120.0	90.0	5.3	-	0.0	-	-	31.1	-	-	-	0.0	-
120.0	100.0	0.0	-	5.5	-	-	-	-	-	-	0.0	-
120.0	120.0	0.0	-	5.5	-	-	-	-	-	-	-	-
123.0	65.0	5.3	-	0.0	-	-	6.8	-	-	0.0	-	-
123.0	70.0	8.0	-	0.0	-	-	0.0	-	-	0.0	-	-
123.0	80.0	2.8	-	0.0	-	-	10.4	-	-	0.0	-	-
127.0	80.0	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
130.0	50.0	0.0	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	55.0	2.9	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	60.0	0.0	-	0.0	-	-	5.2	-	-	-	0.0	-
130.0	65.0	-	-	-	-	-	2.5	-	-	-	-	-
130.0	70.0	6.0	-	0.0	-	-	15.3	-	-	-	2.8	-
130.0	80.0	9.8	-	0.0	-	-	28.5	-	-	-	0.0	-
130.0	90.0	20.8	-	0.0	-	-	0.0	-	-	-	-	-

TABLE 4. (cont.)

*Lampanyctus* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0 100.0	-	0.0	-	2.8	-	-	-	-	-	-	0.0	-
130.0 120.0	-	5.9	-	2.6	-	-	-	-	-	-	7.6	-
133.0 25.0	-	0.0	-	7.9	-	-	-	-	-	0.0	-	-
133.0 40.0	-	0.0	-	0.0	-	-	-	-	-	3.0	-	-
133.0 45.0	-	0.0	-	0.0	-	-	-	-	-	2.9	-	-
133.0 50.0	-	3.2	-	2.9	-	-	-	-	-	0.0	-	-
133.0 55.0	-	8.0	-	8.1	-	-	-	-	-	0.0	-	-
133.0 65.0	-	5.6	-	0.0	-	-	-	-	-	0.0	-	-
133.0 80.0	-	8.8	-	0.0	-	-	-	-	-	5.4	-	-
137.0 35.0	-	11.6	-	5.8	-	-	-	-	-	-	-	-
137.0 45.0	-	0.0	-	2.7	-	-	-	-	-	-	0.0	-
137.0 50.0	-	2.7	-	0.0	-	-	-	-	-	-	0.0	-
137.0 55.0	-	2.9	-	5.3	-	-	-	-	-	-	0.0	-
137.0 60.0	-	34.5	-	2.8	-	-	-	-	-	-	0.0	-
137.0 70.0	-	2.9	-	0.0	-	-	-	-	-	-	2.9	-
137.0 80.0	-	7.8	-	5.7	-	-	-	-	-	-	2.8	-
140.0 35.0	-	0.0	-	0.0	-	-	-	-	-	-	3.0	-
140.0 45.0	-	7.4	-	0.0	-	-	-	-	-	-	0.0	-
140.0 50.0	-	2.9	-	0.0	-	-	-	-	-	-	0.0	-

*Lampanyctus regalis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0 60.0	0.0	-	0.0	-	-	-	-	-	-	2.8	-	-
87.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
87.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
90.0 32.0	0.0	-	-	0.0	-	-	-	-	-	-	11.2	-
90.0 110.0	-	-	-	-	-	-	-	5.1	-	-	-	-
90.0 120.0	0.0	-	-	0.0	-	-	-	4.8	-	0.0	-	-
93.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
93.0 90.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
100.0 55.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
100.0 120.0	-	0.0	-	15.9	-	-	-	-	-	-	0.0	-
107.0 65.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
107.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-

*Lampanyctus ritteri*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 55.0	2.9	-	0.0	-	-	-	-	-	-	0.0	-	-
60.0 60.0	0.0	-	0.0	-	-	-	-	-	-	3.1	-	-
60.0 70.0	-	-	0.0	-	-	-	-	-	-	2.8	-	-
60.0 160.0	0.0	-	5.8	-	-	-	-	-	-	0.0	-	-
70.0 70.0	0.0	-	2.4	-	-	-	-	-	-	0.0	-	-

TABLE 4. (cont.)

*Lampanyctus ritteri* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	80.0	0.0	5.2	-	-	-	-	-	-	0.0	-	-
70.0	90.0	2.9	2.7	-	-	-	-	-	-	2.6	-	-
70.0	100.0	5.1	0.0	-	-	-	-	-	-	-	-	-
70.0	120.0	3.4	9.3	-	-	-	-	-	-	-	-	-
77.0	57.0	0.0	3.0	-	-	-	-	-	-	0.0	-	-
80.0	60.0	0.0	0.0	-	-	-	-	0.0	-	11.6	-	-
80.0	65.0	0.0	11.0	-	-	-	-	-	-	0.0	-	-
80.0	80.0	0.0	23.5	-	-	-	-	0.0	-	3.0	-	-
80.0	90.0	0.0	2.8	-	-	-	-	0.0	-	2.7	-	-
80.0	100.0	0.0	-	-	-	-	-	0.0	-	2.8	-	-
80.0	120.0	0.0	34.0	-	-	-	-	7.8	-	0.0	-	-
83.0	60.0	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
83.0	65.0	2.6	-	3.0	-	-	0.0	-	-	8.5	-	-
83.0	70.0	5.4	-	2.9	-	-	5.6	-	-	2.6	-	-
83.0	80.0	0.0	-	9.0	-	-	0.0	-	-	5.3	-	-
83.0	90.0	0.0	-	5.9	-	-	13.3	-	-	0.0	-	-
87.0	40.0	0.0	-	0.0	-	-	2.9	-	-	0.0	-	-
87.0	45.0	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
87.0	50.0	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
87.0	55.0	0.0	-	0.0	-	-	0.0	-	-	5.5	-	-
87.0	60.0	12.0	-	9.2	-	-	0.0	-	-	5.1	-	-
87.0	65.0	18.5	-	0.0	-	-	0.0	-	-	0.0	-	-
87.0	70.0	2.6	-	0.0	-	-	0.0	-	-	0.0	-	-
87.0	80.0	0.0	-	5.9	-	-	2.7	-	-	0.0	-	-
87.0	90.0	2.9	-	8.9	-	-	0.0	-	-	0.0	-	-
90.0	50.0	-	-	-	-	-	-	5.4	-	-	5.5	-
90.0	60.0	-	-	0.0	-	-	-	4.9	-	11.1	-	-
90.0	65.0	-	-	0.0	-	-	-	-	-	2.8	-	-
90.0	70.0	-	-	0.0	-	-	-	2.7	-	0.0	-	-
90.0	80.0	2.7	-	0.0	-	-	-	0.0	-	0.0	-	-
90.0	90.0	0.0	-	23.8	-	-	-	2.7	-	5.7	-	-
90.0	100.0	0.0	-	34.2	-	-	-	5.3	-	0.0	-	-
90.0	110.0	-	-	-	-	-	-	20.6	-	-	-	-
90.0	120.0	7.9	-	2.9	-	-	-	2.4	-	2.9	-	-
90.0	140.0	0.0	-	5.2	-	-	-	0.0	-	0.0	-	-
93.0	28.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
93.0	30.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
93.0	35.0	-	-	0.0	-	-	0.0	-	-	5.3	-	-
93.0	40.0	-	-	0.0	-	-	2.6	-	-	0.0	-	-
93.0	60.0	-	-	8.6	-	-	0.0	-	-	0.0	-	-
93.0	65.0	-	-	18.5	-	-	0.0	-	-	0.0	-	-
93.0	70.0	-	-	8.6	-	-	5.4	-	-	0.0	-	-
93.0	80.0	-	-	14.9	-	-	2.5	-	-	0.0	-	-
93.0	90.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
93.0	100.0	-	-	5.7	-	-	12.6	-	-	0.0	-	-
97.0	35.0	-	-	13.7	-	-	0.0	-	-	3.0	-	-
		-	-	0.0	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

*Lampanyctus ritteri* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0 40.0	-	2.9	-	0.0	-	-	0.0	-	-	-	-	-
97.0 45.0	-	0.0	-	0.0	-	-	12.0	-	-	11.3	-	-
97.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
97.0 65.0	-	2.5	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0 70.0	-	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0 80.0	-	5.9	-	6.0	-	-	2.7	-	-	0.0	-	-
97.0 90.0	-	8.6	-	9.1	-	-	3.2	-	-	0.0	-	-
100.0 35.0	-	0.0	-	2.9	-	-	0.0	-	-	-	2.8	-
100.0 40.0	-	2.8	-	0.0	-	-	6.7	-	-	-	0.0	-
100.0 45.0	-	5.8	-	0.0	-	-	5.5	-	-	-	0.0	-
100.0 50.0	-	2.4	-	2.8	-	-	2.6	-	-	-	0.0	-
100.0 55.0	-	3.0	-	33.0	-	-	7.1	-	-	-	0.0	-
100.0 60.0	-	2.6	-	30.5	-	-	2.4	-	-	-	0.0	-
100.0 65.0	-	18.4	-	8.6	-	-	0.0	-	-	-	0.0	-
100.0 70.0	-	5.3	-	5.3	-	-	0.0	-	-	-	0.0	-
100.0 80.0	-	11.5	-	25.3	-	-	7.2	-	-	-	0.0	-
100.0 90.0	-	9.1	-	0.0	-	-	-	-	-	-	2.8	-
100.0 120.0	-	5.3	-	0.0	-	-	0.0	-	-	0.0	-	-
103.0 30.0	-	1.7	-	8.9	-	-	0.0	-	-	0.0	-	-
103.0 35.0	-	0.0	-	14.0	-	-	0.0	-	-	5.5	-	-
103.0 40.0	-	0.0	-	6.1	-	-	5.2	-	-	0.0	-	-
103.0 45.0	-	9.3	-	3.0	-	-	0.0	-	-	3.4	-	-
103.0 50.0	-	6.0	-	0.0	-	-	0.0	-	-	0.0	-	-
103.0 55.0	-	3.2	-	0.0	-	-	0.0	-	-	2.9	-	-
103.0 60.0	-	2.9	-	5.8	-	-	0.0	-	-	0.0	-	-
103.0 65.0	-	0.0	-	10.6	-	-	0.0	-	-	2.7	-	-
103.0 70.0	-	6.0	-	5.0	-	-	2.7	-	-	2.9	-	-
103.0 80.0	-	0.0	-	11.7	-	-	3.0	-	-	2.8	-	-
107.0 40.0	-	0.0	-	17.0	-	-	2.4	-	-	0.0	-	-
107.0 45.0	-	0.0	-	11.6	-	-	0.0	-	-	0.0	-	-
107.0 50.0	-	2.6	-	2.8	-	-	0.0	-	-	3.0	-	-
107.0 55.0	-	2.4	-	8.1	-	-	0.0	-	-	11.2	-	-
107.0 60.0	-	15.3	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0 65.0	-	14.8	-	0.0	-	-	2.5	-	-	0.0	-	-
107.0 70.0	-	5.5	-	0.0	-	-	2.8	-	-	0.0	-	-
107.0 90.0	-	6.2	-	-	-	-	3.0	-	-	0.0	-	-
110.0 35.0	-	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
110.0 40.0	-	0.0	-	7.8	-	-	0.0	-	-	-	0.0	-
110.0 45.0	-	0.0	-	2.7	-	-	0.0	-	-	-	2.7	-
110.0 50.0	-	0.0	-	15.1	-	-	3.0	-	-	-	2.3	-
110.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	-	0.0	-
110.0 60.0	-	11.0	-	0.0	-	-	0.0	-	-	-	0.0	-
110.0 65.0	-	0.0	-	4.9	-	-	0.0	-	-	-	0.0	-
110.0 70.0	-	18.5	-	8.0	-	-	0.0	-	-	-	0.0	-
110.0 80.0	-	6.0	-	0.0	-	-	2.6	-	-	-	0.0	-
110.0 90.0	-	5.0	-	5.8	-	-	2.3	-	-	-	0.0	-



TABLE 4. (cont.)

*Lampanyctus ritteri* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0 100.0	-	2.6	-	0.0	-	-	-	-	-	-	0.0	-
113.0 50.0	-	0.0	-	18.3	-	-	0.0	-	-	0.0	-	-
113.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
113.0 65.0	-	0.0	-	0.0	-	-	2.2	-	-	0.0	-	-
113.0 70.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
113.0 80.0	-	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0 35.0	-	0.0	-	0.0	-	-	5.0	-	-	0.0	-	-
117.0 50.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
117.0 65.0	-	0.0	-	4.9	-	-	0.0	-	-	0.0	-	-
117.0 70.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
118.0 39.0	-	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
120.0 50.0	-	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
120.0 55.0	-	0.0	-	10.2	-	-	0.0	-	-	-	0.0	-
120.0 60.0	-	0.0	-	2.5	-	-	0.0	-	-	0.0	0.0	-
123.0 42.0	-	0.0	-	0.0	-	-	4.8	-	-	0.0	0.0	-
123.0 60.0	-	0.0	-	5.8	-	-	0.0	-	-	0.0	-	-
123.0 70.0	-	0.0	-	6.1	-	-	0.0	-	-	0.0	-	-
123.0 80.0	-	0.0	-	6.3	-	-	0.0	-	-	0.0	-	-
127.0 40.0	-	0.0	-	10.4	-	-	0.0	-	-	0.0	-	-
127.0 45.0	-	0.0	-	12.4	-	-	0.0	-	-	0.0	-	-
127.0 50.0	-	0.0	-	11.9	-	-	0.0	-	-	0.0	-	-
127.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
130.0 60.0	-	0.0	-	7.9	-	-	0.0	-	-	-	0.0	-
133.0 40.0	-	0.0	-	2.7	-	-	-	-	-	0.0	-	-

*Notolichnus valdiviae*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 160.0	-	-	-	-	-	-	-	33.6	-	-	-	-
80.0 180.0	-	-	-	-	-	-	-	2.0	-	-	-	-
80.0 200.0	2.8	-	-	0.0	-	-	-	18.3	-	0.0	-	-
90.0 100.0	0.0	-	-	2.8	-	-	-	0.0	-	0.0	-	-
90.0 160.0	5.9	-	-	0.0	-	-	-	7.5	-	0.0	-	-
90.0 180.0	0.0	-	-	0.0	-	-	-	4.8	-	0.0	-	-
90.0 200.0	0.0	-	-	16.6	-	-	-	0.0	-	0.0	-	-
97.0 90.0	-	0.0	-	0.0	-	-	3.2	-	-	0.0	-	-
103.0 70.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
103.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
113.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-

*Notoscopelus resplendens*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 180.0	0.0	-	0.0	-	-	-	-	-	-	2.8	-	-

TABLE 4. (cont.)

*Notoscopelus resplendens* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0 200.0	5.2	-	2.8	-	-	-	-	-	-	0.0	-	-
80.0 130.0	-	-	-	-	-	-	-	2.5	-	-	-	-
80.0 160.0	-	-	-	-	-	-	-	14.0	-	-	-	-
80.0 180.0	-	-	-	-	-	-	-	2.0	-	-	-	-
80.0 200.0	8.5	-	-	0.0	-	-	-	18.3	-	0.0	-	-
90.0 110.0	-	-	-	-	-	-	-	2.6	-	-	-	-
90.0 120.0	0.0	-	-	0.0	-	-	-	4.8	-	0.0	-	-
90.0 140.0	0.0	-	-	0.0	-	-	-	2.5	-	0.0	-	-
90.0 150.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 160.0	5.9	-	-	0.0	-	-	-	5.0	-	0.0	-	-
90.0 200.0	0.0	-	-	0.0	-	-	-	4.8	-	0.0	-	-
93.0 100.0	-	0.0	-	5.5	-	-	0.0	-	-	0.0	-	-
97.0 70.0	-	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
97.0 90.0	-	0.0	-	0.0	-	-	6.5	-	-	0.0	-	-
100.0 55.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
100.0 65.0	-	0.0	-	0.0	-	-	2.3	-	-	-	0.0	-
100.0 70.0	-	0.0	-	0.0	-	-	2.4	-	-	-	2.7	-
100.0 80.0	-	0.0	-	0.0	-	-	12.8	-	-	-	0.0	-
100.0 140.0	-	-	-	2.8	-	-	-	-	-	-	-	-
100.0 160.0	-	-	-	18.6	-	-	-	-	-	-	-	-
103.0 80.0	-	0.0	-	0.0	-	-	3.0	-	-	0.0	-	-
107.0 90.0	-	0.0	-	-	-	-	3.0	-	-	0.0	-	-
110.0 120.0	-	3.4	-	0.0	-	-	-	-	-	-	0.0	-
110.0 140.0	-	-	-	2.8	-	-	-	-	-	-	-	-
113.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	5.6	-	-
113.0 90.0	-	0.0	-	8.7	-	-	0.0	-	-	0.0	-	-
117.0 90.0	-	0.0	-	0.0	-	-	16.7	-	-	0.0	-	-
120.0 65.0	-	0.0	-	0.0	-	-	5.1	-	-	-	0.0	-
120.0 70.0	-	0.0	-	0.0	-	-	12.3	-	-	-	0.0	-
120.0 90.0	-	0.0	-	0.0	-	-	21.5	-	-	-	0.0	-
123.0 65.0	-	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-
123.0 80.0	-	0.0	-	0.0	-	-	10.4	-	-	0.0	-	-
127.0 60.0	-	0.0	-	0.0	-	-	4.9	-	-	0.0	-	-
127.0 65.0	-	0.0	-	0.0	-	-	7.3	-	-	0.0	-	-
130.0 35.0	-	0.0	-	0.0	-	-	2.9	-	-	-	0.0	-
130.0 70.0	-	0.0	-	0.0	-	-	5.1	-	-	-	0.0	-

*Stenobrachius leucopsarus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 52.0	3.9	-	5.5	-	-	-	-	-	-	0.0	-	-
60.0 55.0	81.8	-	24.0	-	-	-	-	-	-	0.0	-	-
60.0 60.0	14.3	-	49.3	-	-	-	-	-	-	0.0	-	-
60.0 70.0	-	-	11.3	-	-	-	-	-	-	0.0	-	-
60.0 80.0	-	-	8.9	-	-	-	-	-	-	0.0	-	-

TABLE 4. (cont.)

*Stenobrachius leucopsarus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	90.0	-	9.2	-	-	-	-	-	-	0.0	-	-
60.0	140.0	-	18.4	-	-	-	-	-	-	0.0	-	-
60.0	160.0	0.0	8.7	-	-	-	-	-	-	0.0	-	-
63.0	52.0	2.1	119.9	-	-	-	-	-	-	0.0	-	-
63.0	55.0	0.0	198.9	-	-	-	-	-	-	0.0	-	-
63.0	60.0	25.9	17.2	-	-	-	-	-	-	0.0	-	-
67.0	50.0	27.6	72.6	-	-	-	-	-	-	0.0	-	-
67.0	55.0	36.4	125.2	-	-	-	-	-	-	-	-	-
67.0	60.0	0.0	241.9	-	-	-	-	-	-	-	-	-
70.0	53.0	5.2	93.1	-	-	-	-	-	-	0.0	-	-
70.0	55.0	52.4	-	-	-	-	-	-	-	-	-	-
70.0	60.0	12.4	51.3	-	-	-	-	-	-	-	-	-
70.0	70.0	6.0	7.2	-	-	-	-	-	-	0.0	-	-
70.0	80.0	19.0	34.1	-	-	-	-	-	-	0.0	-	-
70.0	90.0	20.6	18.9	-	-	-	-	-	-	0.0	-	-
70.0	100.0	17.9	11.9	-	-	-	-	-	-	-	-	-
70.0	120.0	6.7	0.0	-	-	-	-	-	-	-	-	-
73.0	53.0	54.5	53.1	-	-	-	-	-	-	0.0	-	-
73.0	60.0	17.2	112.2	-	-	-	-	-	-	0.0	-	-
77.0	51.0	77.5	53.0	-	-	-	-	-	-	0.0	-	-
77.0	55.0	1.4	48.8	-	-	-	-	-	-	0.0	-	-
77.0	57.0	6.9	20.7	-	-	-	-	-	-	0.0	-	-
80.0	52.0	46.4	74.5	-	-	-	-	-	-	-	-	-
80.0	55.0	26.6	48.8	-	-	-	-	-	-	-	-	-
80.0	60.0	20.2	5.5	-	-	-	-	0.0	-	0.0	-	-
80.0	65.0	35.0	35.6	-	-	-	-	0.0	-	0.0	-	-
80.0	70.0	5.7	3.7	-	-	-	-	0.0	-	0.0	-	-
80.0	80.0	3.6	27.8	-	-	-	-	3.0	-	0.0	-	-
80.0	90.0	3.0	22.2	-	-	-	-	3.0	-	0.0	-	-
80.0	120.0	0.0	5.7	-	-	-	-	0.0	-	0.0	-	-
82.0	47.0	6.6	-	0.0	-	-	0.0	-	-	0.0	-	-
83.0	43.0	10.8	-	11.4	-	-	5.3	-	-	0.0	-	-
83.0	51.0	7.4	-	0.0	-	-	0.0	-	-	0.0	-	-
83.0	55.0	0.0	-	46.9	-	-	0.0	-	-	0.0	-	-
83.0	60.0	14.5	-	145.5	-	-	0.0	-	-	0.0	-	-
83.0	65.0	74.2	-	95.4	-	-	0.0	-	-	0.0	-	-
83.0	70.0	24.2	-	52.2	-	-	2.8	-	-	0.0	-	-
83.0	80.0	19.0	-	48.0	-	-	5.1	-	-	0.0	-	-
83.0	90.0	0.0	-	0.0	-	-	5.3	-	-	0.0	-	-
87.0	35.0	8.3	-	44.8	-	-	0.0	-	-	0.0	-	-
87.0	40.0	16.7	-	40.6	-	-	0.0	-	-	0.0	-	-
87.0	45.0	31.1	-	9.5	-	-	0.0	-	-	0.0	-	-
87.0	50.0	14.8	-	2.9	-	-	0.0	-	-	0.0	-	-
87.0	55.0	108.3	-	41.5	-	-	2.9	-	-	0.0	-	-
87.0	60.0	132.4	-	45.9	-	-	0.0	-	-	0.0	-	-
87.0	65.0	55.4	-	27.5	-	-	0.0	-	-	0.0	-	-

TABLE 4. (cont.)

*Stenobrachius leucopsarus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	70.0	0.0	-	64.1	-	-	3.0	-	-	0.0	-	-
87.0	80.0	0.0	-	11.8	-	-	0.0	-	-	0.0	-	-
90.0	28.0	12.9	-	12.9	-	-	-	0.0	-	-	0.0	-
90.0	32.0	23.0	-	65.5	-	-	-	-	-	-	0.0	-
90.0	37.0	17.6	-	46.6	-	-	-	-	-	-	0.0	-
90.0	45.0	58.2	-	9.0	-	-	-	-	-	-	0.0	-
90.0	53.0	6.7	-	12.8	-	-	-	-	-	-	0.0	-
90.0	60.0	0.0	-	34.2	-	-	-	0.0	-	-	0.0	-
90.0	65.0	2.3	-	8.8	-	-	-	-	-	0.0	-	-
90.0	70.0	2.9	-	29.9	-	-	-	0.0	-	0.0	-	-
90.0	80.0	2.7	-	2.7	-	-	-	0.0	-	0.0	-	-
90.0	90.0	0.0	-	14.9	-	-	-	2.7	-	0.0	-	-
90.0	100.0	0.0	-	11.4	-	-	-	0.0	-	0.0	-	-
93.0	28.0	17.3	-	80.9	-	-	0.0	-	-	0.0	-	-
93.0	30.0	10.4	-	61.3	-	-	2.3	-	-	0.0	-	-
93.0	35.0	5.6	-	71.5	-	-	0.0	-	-	0.0	-	-
93.0	40.0	0.0	-	8.6	-	-	0.0	-	-	0.0	-	-
93.0	50.0	3.0	-	5.6	-	-	0.0	-	-	0.0	-	-
93.0	55.0	3.0	-	14.5	-	-	2.6	-	-	0.0	-	-
93.0	60.0	3.0	-	13.2	-	-	0.0	-	-	0.0	-	-
93.0	65.0	0.0	-	28.5	-	-	0.0	-	-	0.0	-	-
93.0	70.0	0.0	-	8.9	-	-	0.0	-	-	0.0	-	-
93.0	80.0	2.7	-	3.0	-	-	0.0	-	-	0.0	-	-
93.0	90.0	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
93.0	100.0	0.0	-	8.2	-	-	0.0	-	-	0.0	-	-
97.0	30.0	3.5	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0	32.0	5.7	-	6.4	-	-	-	-	-	0.0	-	-
97.0	35.0	5.6	-	35.1	-	-	0.0	-	-	-	-	-
97.0	40.0	0.0	-	2.9	-	-	0.0	-	-	-	-	-
97.0	45.0	8.9	-	35.0	-	-	0.0	-	-	0.0	-	-
97.0	50.0	52.0	-	15.5	-	-	0.0	-	-	0.0	-	-
97.0	55.0	3.2	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0	80.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
100.0	30.0	-	-	42.6	-	-	0.0	-	-	-	0.0	-
100.0	35.0	0.0	-	8.6	-	-	0.0	-	-	-	0.0	-
100.0	40.0	2.8	-	15.8	-	-	0.0	-	-	-	0.0	-
100.0	45.0	11.6	-	15.2	-	-	0.0	-	-	-	0.0	-
100.0	50.0	9.7	-	17.0	-	-	0.0	-	-	-	0.0	-
100.0	55.0	5.9	-	0.0	-	-	0.0	-	-	-	0.0	-
103.0	30.0	0.0	-	13.1	-	-	0.0	-	-	0.0	-	-
103.0	35.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
103.0	40.0	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
103.0	45.0	12.4	-	0.0	-	-	0.0	-	-	0.0	-	-
103.0	55.0	0.0	-	6.1	-	-	0.0	-	-	0.0	-	-
103.0	70.0	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0	35.0	5.2	-	3.1	-	-	0.0	-	-	0.0	-	-

TABLE 4. (cont.)

*Stenobrachius leucopsarus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0 40.0	-	0.0	-	8.8	-	-	0.0	-	-	0.0	-	-
107.0 45.0	-	2.8	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0 50.0	-	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
110.0 32.0	-	-	-	2.1	-	-	0.0	-	-	-	0.0	-
110.0 35.0	-	0.0	-	5.7	-	-	0.0	-	-	-	0.0	-
113.0 40.0	-	0.0	-	6.2	-	-	0.0	-	-	0.0	-	-
113.0 80.0	-	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0 40.0	-	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
117.0 45.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
117.0 50.0	-	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
117.0 65.0	-	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0 80.0	-	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-

*Triphoturus mexicanus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0 53.0	0.0	-	0.0	-	-	-	-	-	-	5.6	-	-
77.0 55.0	0.0	-	0.0	-	-	-	-	-	-	2.7	-	-
80.0 90.0	0.0	-	0.0	-	-	-	-	3.0	-	0.0	-	-
80.0 100.0	-	-	-	-	-	-	-	6.0	-	0.0	-	-
80.0 130.0	-	-	-	-	-	-	-	7.7	-	-	-	-
83.0 43.0	-	0.0	-	0.0	-	-	0.0	-	-	7.4	-	-
83.0 51.0	-	0.0	-	0.0	-	-	2.6	-	-	2.6	-	-
83.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	2.4	-	-
83.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	11.3	-	-
83.0 90.0	-	0.0	-	3.0	-	-	2.7	-	-	0.0	-	-
87.0 40.0	-	0.0	-	0.0	-	-	11.5	-	-	0.0	-	-
87.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	6.0	-	-
87.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	5.1	-	-
87.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	13.7	-	-
87.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
87.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	15.2	-	-
87.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
90.0 28.0	0.0	-	-	0.0	-	-	-	5.5	-	-	50.4	-
90.0 30.0	-	-	-	-	-	-	-	5.9	-	-	-	-
90.0 40.0	-	-	-	-	-	-	-	28.3	-	-	2.8	-
90.0 45.0	0.0	-	-	0.0	-	-	-	85.4	-	-	8.3	-
90.0 60.0	0.0	-	-	0.0	-	-	-	-	-	8.3	-	-
90.0 65.0	0.0	-	-	0.0	-	-	-	8.0	-	0.0	-	-
90.0 70.0	0.0	-	-	0.0	-	-	-	11.0	-	0.0	-	-
90.0 90.0	0.0	-	-	3.0	-	-	-	10.6	-	0.0	-	-
90.0 100.0	0.0	-	-	2.8	-	-	-	18.0	-	-	-	-
90.0 110.0	-	-	-	-	-	-	5.1	-	-	156.6	-	-
93.0 28.0	-	0.0	-	0.0	-	-	25.3	-	-	114.0	-	-
93.0 30.0	-	0.0	-	0.0	-	-	-	-	-	-	-	-



TABLE 4. (cont.)

*Triphoturus mexicanus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	35.0	0.0	-	0.0	-	-	43.8	-	-	21.0	-	-
93.0	40.0	0.0	-	0.0	-	-	105.0	-	-	3.0	-	-
93.0	45.0	0.0	-	0.0	-	-	5.5	-	-	10.5	-	-
93.0	50.0	0.0	-	0.0	-	-	5.1	-	-	76.4	-	-
93.0	55.0	0.0	-	0.0	-	-	0.0	-	-	5.3	-	-
93.0	60.0	0.0	-	2.6	-	-	0.0	-	-	13.8	-	-
93.0	65.0	0.0	-	0.0	-	-	11.0	-	-	8.5	-	-
93.0	70.0	0.0	-	3.0	-	-	0.0	-	-	10.5	-	-
93.0	80.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
93.0	90.0	0.0	-	0.0	-	-	2.7	-	-	7.6	-	-
93.0	100.0	0.0	-	8.2	-	-	58.0	-	-	0.0	-	-
97.0	30.0	0.0	-	0.0	-	-	29.0	-	-	20.1	-	-
97.0	32.0	0.0	-	0.0	-	-	-	-	-	33.4	-	-
97.0	35.0	0.0	-	0.0	-	-	5.4	-	-	17.9	-	-
97.0	40.0	0.0	-	0.0	-	-	4.8	-	-	-	-	-
97.0	45.0	0.0	-	0.0	-	-	9.0	-	-	73.3	-	-
97.0	50.0	0.0	-	0.0	-	-	24.3	-	-	8.4	-	-
97.0	55.0	0.0	-	0.0	-	-	2.8	-	-	17.0	-	-
97.0	60.0	0.0	-	0.0	-	-	0.0	-	-	10.0	-	-
97.0	70.0	0.0	-	12.6	-	-	0.0	-	-	2.7	-	-
97.0	80.0	0.0	-	6.0	-	-	73.7	-	-	0.0	-	-
97.0	90.0	0.0	-	27.4	-	-	42.1	-	-	0.0	-	-
100.0	30.0	-	-	0.0	-	-	0.0	-	-	-	3.2	-
100.0	35.0	0.0	-	0.0	-	-	30.6	-	-	11.4	11.4	-
100.0	40.0	0.0	-	0.0	-	-	13.4	-	-	9.0	9.0	-
100.0	45.0	0.0	-	0.0	-	-	32.9	-	-	2.7	2.7	-
100.0	50.0	0.0	-	0.0	-	-	2.6	-	-	8.8	8.8	-
100.0	55.0	0.0	-	74.3	-	-	82.6	-	-	2.5	2.5	-
100.0	60.0	0.0	-	41.5	-	-	24.0	-	-	2.7	2.7	-
100.0	65.0	0.0	-	17.2	-	-	11.7	-	-	0.0	0.0	-
100.0	70.0	0.0	-	14.4	-	-	19.0	-	-	2.7	2.7	-
100.0	80.0	0.0	-	15.8	-	-	102.4	-	-	8.2	8.2	-
100.0	90.0	0.0	-	42.1	-	-	88.8	-	-	2.8	2.8	-
100.0	100.0	0.0	-	15.7	-	-	-	-	-	2.5	2.5	-
100.0	120.0	0.0	-	4.5	-	-	-	-	-	0.0	0.0	-
100.0	140.0	-	-	2.8	-	-	-	-	-	-	-	-
103.0	30.0	0.0	-	0.0	-	-	3.5	-	-	12.0	-	-
103.0	35.0	0.0	-	17.9	-	-	16.9	-	-	36.1	-	-
103.0	40.0	0.0	-	61.6	-	-	23.0	-	-	27.3	-	-
103.0	45.0	0.0	-	21.4	-	-	26.2	-	-	18.5	-	-
103.0	50.0	0.0	-	27.1	-	-	11.4	-	-	23.9	-	-
103.0	55.0	0.0	-	15.2	-	-	25.4	-	-	23.7	-	-
103.0	60.0	0.0	-	5.9	-	-	58.3	-	-	5.8	-	-
103.0	65.0	0.0	-	20.4	-	-	98.6	-	-	18.7	-	-
103.0	70.0	0.0	-	0.0	-	-	19.0	-	-	40.4	-	-
103.0	80.0	0.0	-	12.5	-	-	60.8	-	-	60.5	-	-

TABLE 4. (cont.)

*Triphoturus mexicanus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	90.0	0.0	-	-	-	-	0.0	-	-	2.7	-	-
107.0	32.0	2.7	-	0.0	-	-	6.1	-	-	49.0	-	-
107.0	35.0	0.0	-	6.2	-	-	5.7	-	-	34.2	-	-
107.0	40.0	0.0	-	35.0	-	-	14.5	-	-	40.3	-	-
107.0	45.0	0.0	-	11.4	-	-	33.4	-	-	28.1	-	-
107.0	50.0	0.0	-	23.3	-	-	5.6	-	-	18.8	-	-
107.0	55.0	0.0	-	22.8	-	-	2.8	-	-	50.3	-	-
107.0	60.0	0.0	-	5.4	-	-	39.5	-	-	58.6	-	-
107.0	65.0	0.0	-	5.6	-	-	116.1	-	-	79.0	-	-
107.0	70.0	0.0	-	10.9	-	-	88.0	-	-	31.3	-	-
107.0	80.0	0.0	-	5.5	-	-	53.6	-	-	16.6	-	-
107.0	90.0	0.0	-	-	-	-	11.8	-	-	5.4	-	-
110.0	32.0	-	-	2.1	-	-	11.6	-	-	-	1.5	-
110.0	35.0	0.0	-	5.7	-	-	54.6	-	-	-	2.7	-
110.0	40.0	0.0	-	10.4	-	-	16.1	-	-	-	15.6	-
110.0	45.0	0.0	-	5.5	-	-	31.1	-	-	-	29.2	-
110.0	50.0	0.0	-	30.1	-	-	14.8	-	-	-	28.4	-
110.0	55.0	0.0	-	52.8	-	-	60.2	-	-	-	7.0	-
110.0	60.0	0.0	-	2.6	-	-	15.7	-	-	-	0.0	-
110.0	65.0	0.0	-	7.4	-	-	33.3	-	-	-	0.0	-
110.0	70.0	0.0	-	126.0	-	-	99.6	-	-	-	0.0	-
110.0	80.0	0.0	-	5.0	-	-	54.0	-	-	-	19.5	-
110.0	90.0	0.0	-	5.8	-	-	4.7	-	-	-	2.9	-
110.0	100.0	0.0	-	5.5	-	-	-	-	-	-	5.4	-
110.0	140.0	-	-	5.6	-	-	-	-	-	-	-	-
113.0	30.0	0.0	-	0.0	-	-	0.0	-	-	4.5	-	-
113.0	35.0	0.0	-	27.6	-	-	11.4	-	-	70.2	-	-
113.0	40.0	2.9	-	104.7	-	-	99.2	-	-	50.8	-	-
113.0	45.0	0.0	-	143.0	-	-	30.1	-	-	3.0	-	-
113.0	50.0	0.0	-	265.4	-	-	19.3	-	-	69.2	-	-
113.0	55.0	0.0	-	48.0	-	-	85.8	-	-	80.4	-	-
113.0	60.0	0.0	-	48.4	-	-	121.9	-	-	29.3	-	-
113.0	65.0	0.0	-	78.0	-	-	33.3	-	-	23.6	-	-
113.0	70.0	0.0	-	65.1	-	-	30.1	-	-	11.3	-	-
113.0	80.0	0.0	-	11.4	-	-	43.7	-	-	13.9	-	-
113.0	90.0	0.0	-	5.8	-	-	0.0	-	-	5.3	-	-
115.0	35.0	0.0	-	-	96.9	-	0.0	-	-	-	6.0	-
117.0	30.0	0.0	-	2.3	-	-	0.0	-	-	0.0	-	-
117.0	35.0	0.0	-	0.0	-	-	29.9	-	-	0.0	-	-
117.0	40.0	0.0	-	13.7	-	-	73.2	-	-	13.4	-	-
117.0	45.0	0.0	-	19.8	-	-	10.0	-	-	22.9	-	-
117.0	50.0	0.0	-	57.4	-	-	18.6	-	-	11.9	-	-
117.0	55.0	0.0	-	50.9	-	-	42.4	-	-	11.3	-	-
117.0	60.0	0.0	-	96.4	-	-	47.3	-	-	2.9	-	-
117.0	65.0	0.0	-	39.0	-	-	17.5	-	-	5.7	-	-
117.0	70.0	0.0	-	14.3	-	-	87.5	-	-	2.8	-	-

TABLE 4. (cont.)

*Triphoturus mexicanus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	80.0	0.0	-	42.9	-	-	56.3	-	-	5.5	-	-
117.0	90.0	0.0	-	43.4	-	-	126.7	-	-	35.4	-	-
118.0	39.0	0.0	-	0.0	-	-	48.8	-	-	2.9	-	-
120.0	25.0	0.0	-	0.0	-	-	14.7	-	-	0.0	-	-
120.0	30.0	0.0	-	0.0	-	-	9.6	-	-	0.0	-	-
120.0	35.0	0.0	-	0.0	-	-	2.2	-	-	0.0	-	-
120.0	45.0	3.0	-	2.9	-	-	57.9	-	-	-	0.0	-
120.0	50.0	2.7	-	12.8	-	-	125.5	-	-	-	0.0	-
120.0	55.0	2.5	-	116.8	-	-	387.2	-	-	-	0.0	-
120.0	60.0	2.6	-	12.5	-	-	387.2	-	-	-	0.0	-
120.0	65.0	6.1	-	41.8	-	-	79.0	-	-	-	0.0	-
120.0	70.0	2.7	-	27.6	-	-	49.0	-	-	-	0.0	-
120.0	80.0	2.5	-	18.6	-	-	64.5	-	-	-	13.2	-
120.0	90.0	0.0	-	22.9	-	-	243.8	-	-	-	5.2	-
120.0	100.0	0.0	-	16.6	-	-	-	-	-	-	5.5	-
120.0	120.0	0.0	-	5.5	-	-	-	-	-	-	0.0	-
123.0	37.0	0.0	-	0.0	-	-	38.9	-	-	0.0	-	-
123.0	42.0	0.0	-	45.9	-	-	848.8	-	-	5.4	-	-
123.0	45.0	0.0	-	5.4	-	-	208.3	-	-	5.7	-	-
123.0	50.0	0.0	-	0.0	-	-	194.6	-	-	19.9	-	-
123.0	55.0	0.0	-	0.0	-	-	45.4	-	-	7.6	-	-
123.0	60.0	0.0	-	60.5	-	-	234.2	-	-	5.4	-	-
123.0	65.0	32.8	-	61.7	-	-	73.0	-	-	21.1	-	-
123.0	70.0	34.6	-	70.6	-	-	25.0	-	-	5.7	-	-
123.0	80.0	50.7	-	50.6	-	-	88.4	-	-	26.2	-	-
127.0	34.0	2.8	-	0.0	-	-	31.9	-	-	0.0	-	-
127.0	40.0	0.0	-	36.4	-	-	7.4	-	-	2.8	-	-
127.0	45.0	2.9	-	68.4	-	-	49.0	-	-	2.8	-	-
127.0	50.0	3.0	-	59.4	-	-	42.7	-	-	0.0	-	-
127.0	55.0	12.1	-	21.1	-	-	30.9	-	-	0.0	-	-
127.0	60.0	11.9	-	20.6	-	-	142.7	-	-	10.5	-	-
127.0	65.0	52.9	-	16.6	-	-	128.8	-	-	8.2	-	-
127.0	70.0	15.4	-	3.0	-	-	58.4	-	-	15.7	-	-
127.0	80.0	0.0	-	29.4	-	-	105.7	-	-	20.2	-	-
130.0	30.0	2.7	-	0.0	-	-	7.4	-	-	-	0.0	-
130.0	35.0	0.0	-	5.5	-	-	423.4	-	-	-	2.8	-
130.0	40.0	16.4	-	0.0	-	-	30.0	-	-	-	0.0	-
130.0	45.0	0.0	-	35.1	-	-	16.9	-	-	-	0.0	-
130.0	50.0	2.5	-	111.0	-	-	158.3	-	-	-	0.0	-
130.0	55.0	25.9	-	74.4	-	-	2.7	-	-	-	0.0	-
130.0	60.0	0.0	-	120.5	-	-	18.1	-	-	-	7.9	-
130.0	65.0	-	-	-	-	-	12.3	-	-	-	-	-
130.0	70.0	0.0	-	30.2	-	-	147.9	-	-	-	5.6	-
130.0	80.0	0.0	-	0.0	-	-	186.5	-	-	-	0.0	-
130.0	90.0	2.6	-	5.2	-	-	5.1	-	-	-	0.0	-
130.0	100.0	2.7	-	5.6	-	-	-	-	-	-	0.0	-

TABLE 4. (cont.)

*Tripnoturus mexicanus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0	25.0	0.0	-	50.2	-	-	-	-	-	0.0	-	-
133.0	30.0	14.7	-	0.0	-	-	-	-	-	0.0	-	-
133.0	35.0	9.0	-	0.0	-	-	-	-	-	0.0	-	-
133.0	40.0	2.6	-	16.4	-	-	-	-	-	0.0	-	-
133.0	45.0	16.3	-	78.3	-	-	-	-	-	2.9	-	-
133.0	50.0	6.3	-	82.9	-	-	-	-	-	11.1	-	-
133.0	55.0	16.1	-	75.6	-	-	-	-	-	0.0	-	-
133.0	60.0	0.0	-	8.5	-	-	-	-	-	0.0	-	-
133.0	65.0	2.8	-	11.4	-	-	-	-	-	11.2	-	-
133.0	70.0	0.0	-	49.5	-	-	-	-	-	0.0	-	-
133.0	80.0	11.7	-	5.8	-	-	-	-	-	0.0	0.0	-
137.0	30.0	13.6	-	11.4	-	-	-	-	-	-	0.0	-
137.0	35.0	5.8	-	23.4	-	-	-	-	-	-	0.0	-
137.0	40.0	5.3	-	14.8	-	-	-	-	-	-	0.0	-
137.0	50.0	8.2	-	5.6	-	-	-	-	-	-	0.0	-
137.0	55.0	14.3	-	5.3	-	-	-	-	-	-	0.0	-
137.0	60.0	61.0	-	8.4	-	-	-	-	-	-	0.0	-
137.0	70.0	26.1	-	13.0	-	-	-	-	-	-	0.0	-
137.0	80.0	13.0	-	11.3	-	-	-	-	-	-	0.0	-
140.0	35.0	2.5	-	11.4	-	-	-	-	-	-	0.0	-
140.0	40.0	0.0	-	34.3	-	-	-	-	-	-	0.0	-
140.0	45.0	2.5	-	36.5	-	-	-	-	-	-	0.0	-
140.0	50.0	0.0	-	23.0	-	-	-	-	-	-	0.0	-

*Centrobranchus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	200.0	0.0	-	-	-	-	-	-	-	0.0	-	-
70.0	120.0	0.0	2.8	-	-	-	-	-	-	-	-	-
70.0	200.0	0.0	6.2	-	-	-	-	-	-	0.0	-	-
80.0	160.0	-	2.8	-	-	-	-	2.8	-	-	-	-
80.0	170.0	-	-	-	-	-	-	2.7	-	-	-	-
80.0	200.0	0.0	-	-	-	-	-	2.6	-	0.0	-	-
87.0	80.0	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
90.0	160.0	-	-	3.0	-	-	-	7.5	-	0.0	-	-
90.0	200.0	0.0	-	0.0	-	-	-	2.4	-	0.0	-	-
100.0	120.0	-	-	2.3	-	-	-	-	-	-	0.0	-

*Diogenichthys* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	180.0	2.7	-	-	-	-	-	-	-	0.0	-	-
80.0	90.0	0.0	0.0	-	-	-	-	11.8	-	0.0	-	-
80.0	140.0	-	-	-	-	-	-	5.0	-	-	-	-

TABLE 4. (cont.)

*Diogenichthys* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0 100.0	3.7	-	-	0.0	-	-	-	0.0	-	0.0	-	-
90.0 120.0	2.6	-	-	0.0	-	-	-	0.0	-	0.0	-	-
90.0 130.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 160.0	8.9	-	-	0.0	-	-	-	0.0	-	0.0	-	-
90.0 180.0	2.9	-	-	0.0	-	-	-	0.0	-	0.0	-	-
93.0 28.0	-	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
93.0 80.0	-	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
93.0 90.0	-	0.0	-	5.7	-	-	0.0	-	-	0.0	-	-
100.0 90.0	-	3.0	-	0.0	-	-	0.0	-	-	0.0	2.8	-
103.0 80.0	-	0.0	-	-	-	-	0.0	-	-	8.3	-	-
103.0 90.0	-	0.0	-	-	-	-	0.0	-	-	2.7	-	-
107.0 32.0	-	0.0	-	-	-	-	0.0	-	-	2.9	-	-
107.0 40.0	-	0.0	-	2.9	-	-	0.0	-	-	2.9	-	-
110.0 55.0	-	0.0	-	0.0	-	-	2.5	-	-	-	0.0	-
110.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	-	0.0	-
110.0 70.0	-	0.0	-	2.5	-	-	0.0	-	-	-	0.0	-
110.0 80.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
110.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-
110.0 120.0	-	0.0	-	0.0	-	-	0.0	-	-	-	11.6	-
110.0 140.0	-	-	-	2.3	-	-	-	-	-	-	0.0	-
110.0 160.0	-	-	-	2.8	-	-	-	-	-	-	-	-
113.0 55.0	-	0.0	-	5.3	-	-	-	-	-	-	-	-
113.0 65.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
113.0 70.0	-	0.0	-	3.0	-	-	2.2	-	-	0.0	-	-
113.0 80.0	-	0.0	-	5.9	-	-	0.0	-	-	0.0	-	-
113.0 90.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
113.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
117.0 50.0	-	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
117.0 55.0	-	3.1	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0 70.0	-	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
117.0 80.0	-	0.0	-	38.4	-	-	0.0	-	-	0.0	-	-
117.0 90.0	-	0.0	-	11.6	-	-	0.0	-	-	0.0	-	-
120.0 45.0	-	0.0	-	0.0	-	-	9.6	-	-	0.0	2.6	-
120.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.6	-
120.0 60.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
120.0 65.0	-	0.0	-	10.4	-	-	0.0	-	-	-	0.0	-
120.0 80.0	-	0.0	-	5.3	-	-	0.0	-	-	-	0.0	-
120.0 90.0	-	0.0	-	5.7	-	-	0.0	-	-	-	0.0	-
120.0 100.0	-	5.9	-	0.0	-	-	-	-	-	-	0.0	-
120.0 120.0	-	0.0	-	0.0	-	-	-	-	-	-	8.1	-
123.0 37.0	-	0.0	-	0.0	-	-	2.2	-	-	0.0	-	-
123.0 45.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
123.0 50.0	-	0.0	-	0.0	-	-	7.9	-	-	0.0	-	-
123.0 60.0	-	0.0	-	5.8	-	-	0.0	-	-	0.0	-	-
123.0 65.0	-	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-
123.0 70.0	-	0.0	-	12.3	-	-	5.0	-	-	0.0	-	-
127.0 40.0	-	5.8	-	0.0	-	-	0.0	-	-	0.0	-	-



TABLE 4. (cont.)

*Diogenichthys* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0 45.0	-	0.0	-	0.0	-	-	5.2	-	-	0.0	-	-
130.0 90.0	-	0.0	-	7.9	-	-	0.0	-	-	-	0.0	-
130.0 100.0	-	0.0	-	2.8	-	-	-	-	-	-	0.0	-
130.0 120.0	-	0.0	-	2.6	-	-	-	-	-	-	0.0	-
133.0 25.0	-	0.0	-	2.6	-	-	-	-	-	0.0	-	-
133.0 55.0	-	0.0	-	13.5	-	-	-	-	-	0.0	-	-
137.0 80.0	-	0.0	-	2.8	-	-	-	-	-	-	2.8	-

*Diogenichthys atlanticus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 140.0	0.0	-	0.0	-	-	-	-	-	-	2.6	-	-
60.0 160.0	0.0	-	5.8	-	-	-	-	-	-	14.3	-	-
60.0 180.0	5.3	-	20.4	-	-	-	-	-	-	11.4	-	-
60.0 200.0	18.1	-	69.3	-	-	-	-	-	-	0.0	-	-
70.0 80.0	0.0	-	2.6	-	-	-	-	-	-	0.0	-	-
70.0 90.0	0.0	-	2.7	-	-	-	-	-	-	0.0	-	-
70.0 100.0	0.0	-	3.0	-	-	-	-	-	-	-	-	-
70.0 120.0	0.0	-	24.7	-	-	-	-	-	-	-	-	-
70.0 200.0	10.4	-	19.9	-	-	-	-	-	-	-	-	-
80.0 60.0	0.0	-	0.0	-	-	-	-	0.0	-	0.0	-	-
80.0 80.0	0.0	-	2.1	-	-	-	-	0.0	-	7.7	-	-
80.0 90.0	0.0	-	0.0	-	-	-	-	3.0	-	3.0	-	-
80.0 120.0	0.0	-	17.0	-	-	-	-	5.2	-	0.0	-	-
80.0 150.0	-	-	-	-	-	-	-	8.2	-	-	-	-
80.0 160.0	-	-	-	-	-	-	-	19.6	-	-	-	-
80.0 200.0	51.1	-	-	3.8	-	-	-	0.0	-	5.3	-	-
83.0 65.0	-	2.6	-	3.0	-	-	0.0	-	-	2.8	-	-
83.0 90.0	-	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
87.0 65.0	-	9.2	-	0.0	-	-	0.0	-	-	0.0	-	-
87.0 70.0	-	2.6	-	3.6	-	-	3.0	-	-	0.0	-	-
90.0 28.0	0.0	-	-	0.0	-	-	-	2.7	-	-	0.0	-
90.0 70.0	0.0	-	-	6.0	-	-	-	0.0	-	0.0	-	-
90.0 80.0	8.1	-	-	0.0	-	-	-	0.0	-	0.0	-	-
90.0 90.0	2.8	-	-	6.0	-	-	-	2.7	-	0.0	-	-
90.0 100.0	0.0	-	-	14.3	-	-	-	5.3	-	14.2	-	-
90.0 110.0	-	-	-	-	-	-	-	5.1	-	-	-	-
90.0 120.0	2.6	-	-	0.0	-	-	-	11.9	-	2.9	-	-
90.0 130.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 140.0	2.9	-	-	10.4	-	-	-	0.0	-	0.0	-	-
90.0 150.0	-	-	-	-	-	-	-	5.0	-	-	-	-
90.0 160.0	26.6	-	-	8.8	-	-	-	5.0	-	2.8	-	-
90.0 170.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 180.0	8.6	-	-	2.7	-	-	-	2.4	-	0.0	-	-
90.0 200.0	0.0	-	-	16.6	-	-	-	0.0	-	2.7	-	-

TABLE 4. (cont.)

*Diogenichthys atlanticus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	60.0	0.0	-	2.6	-	-	0.0	-	-	2.8	-	-
93.0	65.0	0.0	-	8.6	-	-	0.0	-	-	0.0	-	-
93.0	70.0	8.8	-	0.0	-	-	0.0	-	-	0.0	-	-
93.0	80.0	5.5	-	6.0	-	-	2.5	-	-	0.0	-	-
93.0	90.0	2.7	-	5.7	-	-	2.5	-	-	5.1	-	-
93.0	100.0	0.0	-	27.4	-	-	2.5	-	-	23.0	-	-
97.0	45.0	0.0	-	0.0	-	-	6.0	-	-	0.0	-	-
97.0	50.0	0.0	-	0.0	-	-	10.8	-	-	0.0	-	-
97.0	55.0	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
97.0	60.0	0.0	-	0.0	-	-	0.0	-	-	7.5	-	-
97.0	65.0	2.5	-	3.1	-	-	0.0	-	-	0.0	-	-
97.0	70.0	3.0	-	3.2	-	-	0.0	-	-	0.0	-	-
97.0	80.0	14.8	-	6.0	-	-	0.0	-	-	0.0	-	-
97.0	90.0	5.8	-	27.4	-	-	6.5	-	-	0.0	-	-
100.0	35.0	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-
100.0	40.0	0.0	-	0.0	-	-	3.4	-	-	-	3.0	-
100.0	45.0	0.0	-	0.0	-	-	24.7	-	-	-	0.0	-
100.0	50.0	0.0	-	0.0	-	-	12.9	-	-	-	0.0	-
100.0	55.0	0.0	-	0.0	-	-	16.5	-	-	-	0.0	-
100.0	60.0	0.0	-	11.1	-	-	0.0	-	-	-	0.0	-
100.0	65.0	0.0	-	14.3	-	-	0.0	-	-	-	0.0	-
100.0	70.0	5.3	-	14.4	-	-	4.7	-	-	-	0.0	-
100.0	80.0	0.0	-	0.0	-	-	5.1	-	-	-	5.4	-
100.0	90.0	0.0	-	33.7	-	-	2.4	-	-	-	0.0	-
100.0	100.0	2.7	-	5.2	-	-	-	-	-	-	0.0	-
100.0	120.0	26.3	-	9.1	-	-	-	-	-	-	5.7	-
100.0	140.0	-	-	5.5	-	-	-	-	-	-	-	-
100.0	160.0	-	-	23.9	-	-	-	-	-	-	-	-
103.0	40.0	0.0	-	8.4	-	-	0.0	-	-	0.0	-	-
103.0	65.0	0.0	-	0.0	-	-	2.7	-	-	2.7	-	-
103.0	70.0	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
103.0	80.0	0.0	-	5.0	-	-	0.0	-	-	11.0	-	-
103.0	90.0	3.3	-	-	-	-	0.0	-	-	5.3	-	-
107.0	40.0	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
107.0	45.0	0.0	-	11.4	-	-	0.0	-	-	0.0	-	-
107.0	50.0	0.0	-	17.5	-	-	0.0	-	-	2.7	-	-
107.0	55.0	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
107.0	60.0	3.0	-	5.4	-	-	0.0	-	-	0.0	-	-
107.0	65.0	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
107.0	70.0	2.8	-	0.0	-	-	0.0	-	-	0.0	-	-
110.0	35.0	0.0	-	0.0	-	-	0.0	-	-	0.0	0.0	-
110.0	40.0	0.0	-	7.8	-	-	5.5	-	-	-	0.0	-
110.0	45.0	0.0	-	0.0	-	-	0.0	-	-	-	2.7	-
110.0	50.0	0.0	-	6.0	-	-	3.1	-	-	-	2.6	-
110.0	70.0	2.6	-	5.4	-	-	0.0	-	-	-	0.0	-
110.0	80.0	0.0	-	0.0	-	-	0.0	-	-	-	5.6	-

TABLE 4. (cont.)

*Diogenichthys atlanticus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0 90.0	-	0.0	-	2.9	-	-	0.0	-	-	-	5.8	-
110.0 100.0	-	5.1	-	10.9	-	-	-	-	-	-	0.0	-
110.0 120.0	-	6.8	-	0.0	-	-	-	-	-	-	0.0	-
110.0 140.0	-	-	-	2.8	-	-	-	-	-	-	-	-
113.0 45.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
113.0 50.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
113.0 55.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
113.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
113.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
113.0 90.0	-	0.0	-	5.8	-	-	0.0	-	-	0.0	-	-
117.0 70.0	-	3.1	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0 80.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
117.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	5.9	-	-
120.0 55.0	-	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
120.0 80.0	-	0.0	-	2.7	-	-	0.0	-	-	-	0.0	-
123.0 45.0	-	0.0	-	0.0	-	-	5.0	-	-	0.0	-	-
130.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-

*Diogenichthys laternatus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0 65.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
110.0 55.0	-	0.0	-	5.6	-	-	0.0	-	-	-	0.0	-
110.0 60.0	-	0.0	-	5.1	-	-	0.0	-	-	-	0.0	-
113.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	6.0	-	-
113.0 50.0	-	0.0	-	3.0	-	-	0.0	-	-	2.5	-	-
113.0 60.0	-	0.0	-	5.7	-	-	0.0	-	-	0.0	-	-
113.0 70.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
117.0 50.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
117.0 55.0	-	6.3	-	11.3	-	-	0.0	-	-	8.5	-	-
117.0 80.0	-	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0 90.0	-	0.0	-	5.8	-	-	14.3	-	-	0.0	-	-
120.0 60.0	-	5.2	-	0.0	-	-	0.0	-	-	0.0	-	-
120.0 65.0	-	21.5	-	0.0	-	-	0.0	-	-	-	0.0	-
120.0 70.0	-	8.0	-	0.0	-	-	0.0	-	-	-	0.0	-
120.0 80.0	-	12.5	-	0.0	-	-	0.0	-	-	-	0.0	-
120.0 90.0	-	2.7	-	0.0	-	-	55.0	-	-	-	10.5	-
120.0 100.0	-	0.0	-	5.5	-	-	-	-	-	-	8.3	-
120.0 120.0	-	0.0	-	8.3	-	-	-	-	-	-	0.0	-
123.0 45.0	-	0.0	-	0.0	-	-	5.0	-	-	0.0	-	-
123.0 50.0	-	0.0	-	0.0	-	-	18.4	-	-	0.0	-	-
123.0 60.0	-	41.7	-	0.0	-	-	2.4	-	-	0.0	-	-
123.0 65.0	-	13.3	-	35.3	-	-	0.0	-	-	0.0	-	-
123.0 70.0	-	26.7	-	0.0	-	-	0.0	-	-	8.6	-	-
123.0 80.0	-	16.5	-	6.3	-	-	44.2	-	-	0.0	-	-

TABLE 4. (cont.)

Diogenichthys laternatus (cont.)												
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0	34.0	0.0	-	0.0	-	-	9.1	-	-	0.0	-	-
127.0	40.0	0.0	-	0.0	-	-	0.0	-	-	11.4	-	-
127.0	45.0	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0	50.0	6.1	-	5.9	-	-	0.0	-	-	0.0	-	-
127.0	55.0	9.1	-	0.0	-	-	4.8	-	-	0.0	-	-
127.0	60.0	0.0	-	3.0	-	-	19.7	-	-	0.0	-	-
127.0	65.0	47.0	-	0.0	-	-	9.7	-	-	5.5	-	-
127.0	70.0	18.5	-	3.0	-	-	17.8	-	-	0.0	-	-
127.0	80.0	3.1	-	0.0	-	-	16.4	-	-	0.0	-	-
130.0	35.0	3.4	-	0.0	-	-	5.8	-	-	-	5.7	-
130.0	45.0	0.0	-	5.4	-	-	0.0	-	-	-	0.0	-
130.0	50.0	30.6	-	0.0	-	-	5.5	-	-	-	0.0	-
130.0	55.0	31.7	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	60.0	5.5	-	18.3	-	-	7.7	-	-	-	0.0	-
130.0	65.0	-	-	-	-	-	2.5	-	-	-	-	-
130.0	70.0	6.0	-	0.0	-	-	186.1	-	-	-	0.0	-
130.0	80.0	110.7	-	2.5	-	-	41.4	-	-	-	15.9	-
130.0	90.0	44.2	-	0.0	-	-	12.8	-	-	-	5.3	-
130.0	100.0	2.7	-	0.0	-	-	-	-	-	-	26.1	-
130.0	120.0	0.0	-	0.0	-	-	-	-	-	0.0	17.7	-
133.0	30.0	2.9	-	0.0	-	-	-	-	-	10.6	-	-
133.0	35.0	17.9	-	0.0	-	-	-	-	-	15.1	-	-
133.0	40.0	15.7	-	19.2	-	-	-	-	-	2.9	-	-
133.0	45.0	32.6	-	18.9	-	-	-	-	-	2.8	-	-
133.0	50.0	22.1	-	48.6	-	-	-	-	-	0.0	-	-
133.0	55.0	13.4	-	0.0	-	-	-	-	-	3.0	-	-
133.0	60.0	0.0	-	22.6	-	-	-	-	-	0.0	-	-
133.0	70.0	5.7	-	0.0	-	-	-	-	-	13.6	-	-
133.0	80.0	52.6	-	0.0	-	-	-	-	-	-	2.7	-
137.0	30.0	8.1	-	0.0	-	-	-	-	-	-	0.0	-
137.0	35.0	5.8	-	46.7	-	-	-	-	-	-	0.0	-
137.0	40.0	5.3	-	20.6	-	-	-	-	-	-	0.0	-
137.0	45.0	16.1	-	34.6	-	-	-	-	-	-	3.0	-
137.0	50.0	16.3	-	25.3	-	-	-	-	-	-	37.8	-
137.0	55.0	34.3	-	15.8	-	-	-	-	-	-	2.9	-
137.0	60.0	98.1	-	30.8	-	-	-	-	-	-	8.6	-
137.0	70.0	26.1	-	18.3	-	-	-	-	-	-	0.0	-
137.0	80.0	44.4	-	0.0	-	-	-	-	-	-	9.0	-
140.0	35.0	7.7	-	8.5	-	-	-	-	-	-	11.0	-
140.0	40.0	2.6	-	5.3	-	-	-	-	-	-	2.8	-
140.0	45.0	17.3	-	60.0	-	-	-	-	-	-	3.3	-
140.0	50.0	26.4	-	58.9	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

*Electrona rissoi*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 160.0	0.0	-	2.9	-	-	-	-	-	-	0.0	-	-
70.0 200.0	10.4	-	0.0	-	-	-	-	-	-	0.0	-	-
90.0 80.0	2.7	-	-	0.0	-	-	-	0.0	-	0.0	-	-
90.0 120.0	0.0	-	-	0.0	-	-	-	0.0	-	2.9	-	-
100.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.7	-

*Goniichthys tenuiculus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0 140.0	-	-	-	2.8	-	-	-	-	-	-	-	-
117.0 70.0	-	0.0	-	5.7	-	-	0.0	-	-	0.0	-	-
120.0 80.0	-	5.0	-	0.0	-	-	0.0	-	-	-	0.0	-
123.0 70.0	-	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0 65.0	-	23.5	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0 80.0	-	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-
130.0 30.0	-	5.4	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0 50.0	-	5.1	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0 55.0	-	11.5	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0 70.0	-	0.0	-	0.0	-	-	15.3	-	-	-	0.0	-
130.0 80.0	-	4.9	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0 90.0	-	5.2	-	0.0	-	-	2.6	-	-	-	0.0	-
133.0 45.0	-	5.4	-	0.0	-	-	-	-	-	0.0	-	-
133.0 50.0	-	3.2	-	0.0	-	-	-	-	-	0.0	-	-
133.0 70.0	-	0.0	-	0.0	-	-	-	-	-	2.6	-	-
133.0 80.0	-	5.8	-	0.0	-	-	-	-	-	0.0	-	-
137.0 35.0	-	2.9	-	0.0	-	-	-	-	-	-	0.0	-
137.0 50.0	-	8.2	-	2.8	-	-	-	-	-	-	0.0	-
137.0 60.0	-	5.3	-	0.0	-	-	-	-	-	-	0.0	-
140.0 40.0	-	2.6	-	0.0	-	-	-	-	-	-	0.0	-
140.0 45.0	-	4.9	-	0.0	-	-	-	-	-	-	0.0	-
140.0 50.0	-	0.0	-	2.6	-	-	-	-	-	-	0.0	-

*Hygophum* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0 60.0	-	2.6	-	0.0	-	-	0.0	-	-	-	0.0	-
120.0 80.0	-	2.5	-	0.0	-	-	0.0	-	-	-	0.0	-
127.0 70.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-

*Hygophum atratum*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0 80.0	-	0.0	-	2.5	-	-	0.0	-	-	0.0	-	-



TABLE 4. (cont.)

*Hygophum atratum* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	65.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
113.0	80.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
120.0	80.0	0.0	-	5.3	-	-	0.0	-	-	-	0.0	-
120.0	90.0	2.7	-	0.0	-	-	0.0	-	-	-	0.0	-
123.0	70.0	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0	60.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
127.0	80.0	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-
130.0	35.0	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-
130.0	40.0	0.0	-	0.0	-	-	3.0	-	-	-	2.5	-
130.0	45.0	0.0	-	0.0	-	-	2.8	-	-	-	0.0	-
130.0	55.0	2.9	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	60.0	0.0	-	2.6	-	-	0.0	-	-	-	0.0	-
130.0	70.0	0.0	-	0.0	-	-	10.2	-	-	-	0.0	-
130.0	80.0	9.8	-	0.0	-	-	0.0	-	-	-	0.0	-
133.0	30.0	2.9	-	0.0	-	-	-	-	-	2.7	-	-
133.0	35.0	0.0	-	0.0	-	-	-	-	-	3.5	-	-
133.0	40.0	0.0	-	5.5	-	-	-	-	-	0.0	-	-
133.0	45.0	8.2	-	0.0	-	-	-	-	-	2.9	-	-
133.0	50.0	3.2	-	0.0	-	-	-	-	-	2.8	-	-
133.0	65.0	2.8	-	0.0	-	-	-	-	-	0.0	-	-
133.0	80.0	8.8	-	0.0	-	-	-	-	-	0.0	-	-
137.0	35.0	2.9	-	0.0	-	-	-	-	-	-	0.0	-
137.0	50.0	8.2	-	0.0	-	-	-	-	-	-	0.0	-
137.0	55.0	5.7	-	0.0	-	-	-	-	-	-	0.0	-
137.0	60.0	21.2	-	0.0	-	-	-	-	-	-	0.0	-
137.0	70.0	17.4	-	7.8	-	-	-	-	-	-	0.0	-
137.0	80.0	2.6	-	0.0	-	-	-	-	-	-	0.0	-
140.0	40.0	5.2	-	0.0	-	-	-	-	-	-	5.5	-
140.0	45.0	12.4	-	0.0	-	-	-	-	-	-	2.8	-
140.0	50.0	8.8	-	0.0	-	-	-	-	-	-	0.0	-

*Hygophum reinhardtii*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	160.0	0.0	-	-	-	-	-	-	-	2.9	-	-
60.0	180.0	0.0	0.0	-	-	-	-	-	-	5.7	-	-
60.0	200.0	0.0	5.5	-	-	-	-	-	-	0.0	-	-
70.0	200.0	0.0	5.7	-	-	-	-	-	-	24.1	-	-
80.0	160.0	-	-	-	-	-	-	8.4	-	-	-	-
80.0	170.0	-	-	-	-	-	-	10.6	-	-	-	-
80.0	190.0	-	-	-	-	-	-	5.3	-	-	-	-
80.0	200.0	17.0	-	11.3	-	-	-	31.3	-	0.0	-	-
90.0	120.0	5.3	-	0.0	-	-	-	4.8	-	2.9	-	-
90.0	140.0	0.0	-	0.0	-	-	-	7.4	-	0.0	-	-
90.0	160.0	5.9	-	5.8	-	-	-	2.5	-	0.0	-	-

TABLE 4. (cont.)

*Hygophum reinhardtii* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0 170.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 180.0	5.7	-	-	5.4	-	-	-	7.2	-	2.6	-	-
90.0 200.0	0.0	-	-	8.3	-	-	-	4.8	-	2.7	-	-
93.0 100.0	-	0.0	-	2.7	-	-	0.0	-	-	5.7	-	-
97.0 90.0	-	2.9	-	6.1	-	-	0.0	-	-	0.0	-	-
100.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.9	-
100.0 120.0	-	5.3	-	6.8	-	-	-	-	-	-	5.7	-
103.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
103.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	5.5	-	-
103.0 90.0	-	0.0	-	-	-	-	3.0	-	-	0.0	-	-
110.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-
110.0 90.0	-	0.0	-	0.0	-	-	2.3	-	-	-	2.9	-
110.0 120.0	-	2.5	-	0.0	-	-	-	-	-	-	8.6	-
110.0 140.0	-	3.4	-	0.0	-	-	-	-	-	-	-	-
110.0 160.0	-	-	-	2.8	-	-	-	-	-	-	-	-
113.0 80.0	-	0.0	-	5.3	-	-	-	-	-	-	-	-
117.0 90.0	-	0.0	-	0.0	-	-	2.9	-	-	0.0	-	-
120.0 80.0	-	0.0	-	0.0	-	-	4.8	-	-	0.0	-	-
120.0 90.0	-	0.0	-	0.0	-	-	5.0	-	-	-	0.0	-
120.0 100.0	-	0.0	-	0.0	-	-	4.8	-	-	-	0.0	-
120.0 120.0	-	0.0	-	0.0	-	-	-	-	-	-	2.7	-
123.0 60.0	-	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
123.0 65.0	-	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
130.0 60.0	-	2.8	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0 80.0	-	0.0	-	0.0	-	-	12.9	-	-	-	2.7	-
130.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.6	-
137.0 80.0	-	0.0	-	0.0	-	-	-	-	-	-	2.8	-

*Loweina rara*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 160.0	-	-	-	-	-	-	-	2.8	-	-	-	-
90.0 160.0	0.0	-	-	0.0	-	-	-	2.5	-	0.0	-	-
113.0 65.0	-	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
137.0 70.0	-	0.0	-	0.0	-	-	-	-	-	-	2.9	-

*Myctophum nitidulum*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 200.0	0.0	-	-	-	-	-	-	-	-	0.0	-	-
70.0 200.0	0.0	-	5.5	-	-	-	-	-	-	2.7	-	-
80.0 150.0	-	-	0.0	-	-	-	-	2.7	-	-	-	-
80.0 160.0	-	-	-	-	-	-	-	2.8	-	-	-	-
80.0 170.0	-	-	-	-	-	-	-	2.7	-	-	-	-

TABLE 4. (cont.)

*Myctophum nitidulum* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 200.0	5.7	-	-	0.0	-	-	-	0.0	-	0.0	-	-
90.0 90.0	0.0	-	-	0.0	-	-	-	2.7	-	0.0	-	-
90.0 100.0	0.0	-	-	2.8	-	-	-	0.0	-	0.0	-	-
90.0 110.0	-	-	-	-	-	-	-	10.3	-	-	-	-
90.0 140.0	0.0	-	-	0.0	-	-	-	2.5	-	0.0	-	-
90.0 160.0	8.9	-	-	0.0	-	-	-	0.0	-	0.0	-	-
90.0 180.0	2.9	-	-	0.0	-	-	-	0.0	-	2.6	-	-
90.0 200.0	0.0	-	-	0.0	-	-	-	0.0	-	2.7	-	-
97.0 70.0	-	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
100.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.9	-
100.0 100.0	-	0.0	-	2.6	-	-	-	-	-	-	0.0	-
100.0 120.0	-	0.0	-	4.5	-	-	-	-	-	-	2.8	-
100.0 160.0	-	-	-	2.7	-	-	-	-	-	-	-	-
103.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	5.3	-	-
103.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	11.0	-	-
103.0 90.0	-	0.0	-	-	-	-	3.0	-	-	0.0	-	-
107.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	4.9	-	-
107.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
107.0 90.0	-	0.0	-	-	-	-	0.0	-	-	10.7	-	-
110.0 60.0	-	0.0	-	2.6	-	-	0.0	-	-	-	0.0	-
110.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.3	-
110.0 80.0	-	3.0	-	0.0	-	-	0.0	-	-	-	0.0	-
110.0 100.0	-	2.6	-	0.0	-	-	-	-	-	-	2.7	-
110.0 120.0	-	0.0	-	0.0	-	-	-	-	-	-	2.9	-
113.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
113.0 80.0	-	0.0	-	0.0	-	-	2.9	-	-	0.0	-	-
113.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	5.3	-	-
117.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
120.0 50.0	-	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
120.0 60.0	-	0.0	-	0.0	-	-	4.8	-	-	-	0.0	-
120.0 90.0	-	0.0	-	0.0	-	-	2.4	-	-	-	2.6	-
123.0 55.0	-	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
130.0 90.0	-	2.6	-	0.0	-	-	0.0	-	-	-	0.0	-

*Protomyctophum crockeri*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 60.0	0.0	-	2.9	-	-	-	-	-	-	0.0	-	-
60.0 80.0	-	-	0.0	-	-	-	-	-	-	13.2	-	-
60.0 90.0	-	-	2.3	-	-	-	-	-	-	4.4	-	-
60.0 120.0	0.0	-	8.1	-	-	-	-	-	-	0.0	-	-
60.0 160.0	0.0	-	8.7	-	-	-	-	-	-	0.0	-	-
63.0 52.0	0.0	-	2.2	-	-	-	-	-	-	0.0	-	-
63.0 55.0	0.0	-	0.0	-	-	-	-	-	-	2.9	-	-
63.0 60.0	0.0	-	0.0	-	-	-	-	-	-	8.3	-	-

TABLE 4. (cont.)

*Protomyctophum crockeri* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	70.0	0.0	7.2	-	-	-	-	-	-	0.0	-	-
70.0	80.0	0.0	2.6	-	-	-	-	-	-	2.9	-	-
70.0	90.0	2.9	8.1	-	-	-	-	-	-	5.2	-	-
70.0	100.0	0.0	6.0	-	-	-	-	-	-	-	-	-
70.0	120.0	3.4	6.2	-	-	-	-	-	-	-	-	-
70.0	200.0	0.0	2.8	-	-	-	-	-	-	0.0	-	-
73.0	60.0	0.0	0.0	-	-	-	-	-	-	8.5	-	-
77.0	51.0	0.0	2.8	-	-	-	-	-	-	0.0	-	-
77.0	55.0	0.0	2.7	-	-	-	-	-	-	0.0	-	-
80.0	52.0	2.7	0.0	-	-	-	-	-	-	0.0	-	-
80.0	60.0	0.0	2.8	-	-	-	-	0.0	-	3.8	-	-
80.0	80.0	5.4	2.1	-	-	-	-	3.0	-	0.0	-	-
80.0	90.0	0.0	0.0	-	-	-	-	0.0	-	8.0	-	-
80.0	110.0	-	-	-	-	-	-	5.7	-	-	-	-
80.0	120.0	0.0	5.7	-	-	-	-	0.0	-	0.0	-	-
80.0	200.0	22.7	-	0.0	-	-	-	0.0	-	0.0	-	-
83.0	60.0	-	5.8	0.0	-	-	0.0	-	-	0.0	-	-
83.0	65.0	-	2.6	3.0	-	-	2.8	-	-	2.8	-	-
83.0	70.0	-	0.0	0.0	-	-	0.0	-	-	0.0	-	-
83.0	80.0	-	10.9	3.0	-	-	5.3	-	-	2.7	-	-
83.0	90.0	-	0.0	0.0	-	-	0.0	-	-	0.0	-	-
87.0	55.0	-	0.0	0.0	-	-	0.0	-	-	0.0	-	-
87.0	60.0	-	18.1	0.0	-	-	2.6	-	-	0.0	-	-
87.0	65.0	-	0.0	0.0	-	-	0.0	-	-	0.0	-	-
87.0	70.0	-	5.2	0.0	-	-	0.0	-	-	0.0	-	-
87.0	90.0	-	0.0	0.0	-	-	6.0	-	-	2.5	-	-
90.0	28.0	-	-	0.0	-	-	-	0.0	-	-	2.5	-
90.0	32.0	0.0	-	2.6	-	-	-	-	-	-	0.0	-
90.0	37.0	0.0	-	0.0	-	-	-	-	-	-	5.6	-
90.0	60.0	0.0	-	3.1	-	-	-	2.4	-	-	8.3	-
90.0	65.0	0.0	-	5.9	-	-	-	-	-	0.0	-	-
90.0	70.0	8.8	-	3.0	-	-	-	2.7	-	2.8	-	-
90.0	80.0	0.0	-	5.4	-	-	-	10.7	-	0.0	-	-
90.0	90.0	2.8	-	3.0	-	-	-	0.0	-	0.0	-	-
90.0	100.0	0.0	-	0.0	-	-	-	5.3	-	11.4	-	-
90.0	110.0	-	-	-	-	-	-	5.1	-	-	-	-
90.0	140.0	2.9	-	0.0	-	-	-	0.0	-	0.0	-	-
90.0	150.0	-	-	-	-	-	-	2.5	-	-	-	-
90.0	160.0	8.9	-	2.9	-	-	-	7.5	-	0.0	-	-
90.0	170.0	-	-	-	-	-	-	7.4	-	-	-	-
90.0	180.0	5.7	-	0.0	-	-	-	2.4	-	7.9	-	-
93.0	30.0	-	0.0	2.9	-	-	0.0	-	-	0.0	-	-
93.0	40.0	-	2.8	0.0	-	-	2.6	-	-	0.0	-	-
93.0	55.0	-	0.0	0.0	-	-	0.0	-	-	5.3	-	-
93.0	60.0	-	0.0	5.3	-	-	0.0	-	-	5.5	-	-
93.0	65.0	-	0.0	17.1	-	-	0.0	-	-	2.8	-	-

TABLE 4. (cont.)

*Protomyctophum crockeri* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	70.0	0.0	-	3.0	-	-	0.0	-	-	2.6	-	-
93.0	90.0	2.7	-	2.8	-	-	5.4	-	-	0.0	-	-
93.0	100.0	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0	35.0	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
97.0	45.0	0.0	-	0.0	-	-	6.0	-	-	2.8	-	-
97.0	50.0	0.0	-	3.1	-	-	5.4	-	-	0.0	-	-
97.0	55.0	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
97.0	60.0	0.0	-	0.0	-	-	0.0	-	-	5.0	-	-
97.0	65.0	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
97.0	70.0	0.0	-	6.3	-	-	0.0	-	-	0.0	-	-
97.0	80.0	3.0	-	6.0	-	-	0.0	-	-	0.0	-	-
97.0	90.0	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
100.0	35.0	4.3	-	2.9	-	-	0.0	-	-	0.0	5.7	-
100.0	40.0	2.8	-	3.2	-	-	6.7	-	-	-	6.0	-
100.0	45.0	2.9	-	6.1	-	-	2.7	-	-	-	2.7	-
100.0	50.0	2.4	-	0.0	-	-	5.2	-	-	-	0.0	-
100.0	55.0	0.0	-	5.5	-	-	4.7	-	-	-	0.0	-
100.0	60.0	0.0	-	5.5	-	-	2.4	-	-	-	0.0	-
100.0	65.0	3.1	-	2.9	-	-	0.0	-	-	-	2.9	-
100.0	70.0	0.0	-	10.5	-	-	2.4	-	-	-	2.7	-
100.0	80.0	2.3	-	5.6	-	-	2.6	-	-	-	0.0	-
100.0	90.0	0.0	-	0.0	-	-	4.8	-	-	-	2.5	-
100.0	100.0	0.0	-	4.5	-	-	-	-	-	-	0.0	-
100.0	120.0	0.0	-	2.8	-	-	-	-	-	-	-	-
100.0	140.0	-	-	5.3	-	-	-	-	-	-	-	-
100.0	160.0	-	-	8.9	-	-	-	-	-	-	-	-
103.0	35.0	0.0	-	2.8	-	-	2.4	-	-	0.0	-	-
103.0	40.0	0.0	-	6.1	-	-	0.0	-	-	2.7	-	-
103.0	45.0	6.2	-	0.0	-	-	0.0	-	-	0.0	-	-
103.0	50.0	0.0	-	2.9	-	-	0.0	-	-	3.4	-	-
103.0	55.0	0.0	-	0.0	-	-	0.0	-	-	5.3	-	-
103.0	65.0	3.0	-	2.7	-	-	0.0	-	-	0.0	-	-
103.0	70.0	6.0	-	0.0	-	-	0.0	-	-	2.8	-	-
103.0	80.0	0.0	-	-	-	-	0.0	-	-	2.7	-	-
103.0	90.0	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-
107.0	32.0	5.2	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0	35.0	0.0	-	2.9	-	-	0.0	-	-	2.9	-	-
107.0	40.0	5.2	-	5.8	-	-	0.0	-	-	2.7	-	-
107.0	50.0	0.0	-	5.7	-	-	0.0	-	-	0.0	-	-
107.0	55.0	12.2	-	0.0	-	-	13.2	-	-	0.0	-	-
107.0	60.0	11.8	-	0.0	-	-	2.5	-	-	0.0	-	-
107.0	65.0	-	-	2.8	-	-	2.8	-	-	5.7	-	-
107.0	70.0	5.5	-	5.4	-	-	0.0	-	-	2.8	-	-
107.0	80.0	0.0	-	2.7	-	-	0.0	-	-	2.7	-	-
107.0	90.0	3.1	-	-	-	-	0.0	-	-	-	0.0	-
110.0	35.0	0.0	-	5.7	-	-	0.0	-	-	-	0.0	-
110.0	40.0	0.0	-	0.0	-	-	0.0	-	-	-	2.6	-



TABLE 4. (cont.)

*Protomyctophum crockeri* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	45.0	2.8	-	0.0	-	-	0.0	-	-	-	2.7	-
110.0	60.0	2.8	-	0.0	-	-	0.0	-	-	-	4.7	-
110.0	65.0	5.4	-	4.9	-	-	4.8	-	-	-	0.0	-
110.0	70.0	0.0	-	7.4	-	-	4.9	-	-	-	0.0	-
110.0	80.0	0.0	-	0.0	-	-	0.0	-	-	-	0.0	-
110.0	90.0	0.0	-	0.0	-	-	-	-	-	-	2.9	-
110.0	100.0	0.0	-	0.0	-	-	-	-	-	-	8.0	-
110.0	120.0	0.0	-	0.0	-	-	-	-	-	-	2.9	-
113.0	35.0	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-
113.0	40.0	2.9	-	0.0	-	-	8.0	-	-	0.0	-	-
113.0	45.0	0.0	-	0.0	-	-	2.5	-	-	3.0	-	-
113.0	60.0	0.0	-	5.7	-	-	2.3	-	-	0.0	-	-
113.0	70.0	2.8	-	5.9	-	-	0.0	-	-	2.8	-	-
113.0	80.0	16.3	-	2.8	-	-	0.0	-	-	2.8	-	-
113.0	90.0	0.0	-	5.8	-	-	0.0	-	-	0.0	-	-
117.0	40.0	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
117.0	45.0	0.0	-	2.8	-	-	2.5	-	-	0.0	-	-
117.0	55.0	3.1	-	0.0	-	-	0.0	-	-	8.5	-	-
117.0	60.0	0.0	-	2.4	-	-	0.0	-	-	0.0	-	-
117.0	70.0	0.0	-	5.7	-	-	0.0	-	-	0.0	-	-
117.0	80.0	0.0	-	0.0	-	-	10.7	-	-	0.0	-	-
120.0	50.0	0.0	-	0.0	-	-	10.7	-	-	-	0.0	-
120.0	55.0	0.0	-	7.6	-	-	2.7	-	-	-	0.0	-
120.0	60.0	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
120.0	65.0	3.1	-	0.0	-	-	0.0	-	-	-	2.6	-
120.0	70.0	2.7	-	0.0	-	-	2.5	-	-	-	0.0	-
120.0	80.0	2.5	-	10.6	-	-	0.0	-	-	-	2.6	-
120.0	90.0	0.0	-	0.0	-	-	26.3	-	-	-	0.0	-
120.0	100.0	0.0	-	2.8	-	-	-	-	-	-	0.0	-
123.0	45.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
123.0	60.0	0.0	-	0.0	-	-	2.4	-	-	2.7	-	-
123.0	70.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
123.0	80.0	0.0	-	3.2	-	-	2.6	-	-	7.9	-	-
127.0	55.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
127.0	65.0	8.8	-	5.5	-	-	2.4	-	-	2.7	-	-
127.0	70.0	3.1	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0	80.0	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-
130.0	50.0	2.5	-	6.0	-	-	0.0	-	-	-	0.0	-
130.0	70.0	0.0	-	0.0	-	-	7.7	-	-	-	14.0	-
130.0	80.0	0.0	-	0.0	-	-	7.8	-	-	-	0.0	-
133.0	25.0	0.0	-	5.3	-	-	-	-	-	0.0	-	-
133.0	45.0	0.0	-	2.7	-	-	-	-	-	0.0	-	-
133.0	50.0	0.0	-	2.9	-	-	-	-	-	0.0	-	-
133.0	60.0	2.9	-	5.6	-	-	-	-	-	2.6	-	-
133.0	70.0	0.0	-	2.9	-	-	-	-	-	-	0.0	-
137.0	35.0	2.9	-	2.9	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

*Protomyctophum crockeri* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0 60.0	-	5.3	-	0.0	-	-	-	-	-	-	2.9	-
137.0 70.0	-	5.8	-	0.0	-	-	-	-	-	-	0.0	-
140.0 40.0	-	0.0	-	2.6	-	-	-	-	-	-	0.0	-
140.0 50.0	-	0.0	-	2.6	-	-	-	-	-	-	0.0	-

*Symbolophorus californiensis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 160.0	0.0	-	5.8	-	-	-	-	-	-	0.0	-	-
60.0 180.0	2.7	-	2.9	-	-	-	-	-	-	0.0	-	-
60.0 200.0	0.0	-	8.3	-	-	-	-	-	-	0.0	-	-
70.0 90.0	0.0	-	5.4	-	-	-	-	-	-	0.0	-	-
70.0 100.0	0.0	-	6.0	-	-	-	-	-	-	-	-	-
70.0 120.0	0.0	-	6.2	-	-	-	-	-	-	-	-	-
70.0 200.0	2.6	-	0.0	-	-	-	-	-	-	0.0	-	-
80.0 60.0	0.0	-	0.0	-	-	-	-	0.0	-	3.8	-	-
80.0 80.0	0.0	-	6.4	-	-	-	-	3.0	-	0.0	-	-
80.0 90.0	0.0	-	0.0	-	-	-	-	3.0	-	0.0	-	-
80.0 120.0	0.0	-	8.5	-	-	-	-	2.6	-	0.0	-	-
80.0 130.0	-	-	-	-	-	-	-	7.7	-	-	-	-
80.0 140.0	-	-	-	-	-	-	-	2.5	-	-	-	-
80.0 150.0	-	-	-	-	-	-	-	2.7	-	-	-	-
83.0 65.0	-	0.0	-	0.0	-	-	2.8	-	-	2.8	-	-
83.0 90.0	-	2.7	-	3.0	-	-	0.0	-	-	0.0	-	-
87.0 60.0	-	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
87.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	5.1	-	-
87.0 70.0	-	0.0	-	0.0	-	-	3.0	-	-	0.0	-	-
87.0 90.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
90.0 30.0	-	-	-	-	-	-	-	2.9	-	-	2.8	-
90.0 60.0	0.0	-	-	0.0	-	-	-	0.0	-	-	-	-
90.0 70.0	0.0	-	-	0.0	-	-	-	2.7	-	2.8	-	-
90.0 80.0	8.1	-	-	8.2	-	-	-	10.7	-	0.0	-	-
90.0 90.0	5.6	-	-	8.9	-	-	-	8.2	-	0.0	-	-
90.0 100.0	0.0	-	-	42.8	-	-	-	7.9	-	0.0	-	-
90.0 110.0	-	-	-	-	-	-	-	23.1	-	-	-	-
90.0 120.0	26.3	-	-	14.7	-	-	-	9.5	-	0.0	-	-
90.0 140.0	2.9	-	-	26.1	-	-	-	2.5	-	0.0	-	-
90.0 150.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 160.0	3.0	-	-	2.9	-	-	-	0.0	-	0.0	-	-
93.0 28.0	-	0.0	-	0.0	-	-	0.0	-	-	5.4	-	-
93.0 30.0	-	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-
93.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
93.0 65.0	-	3.0	-	14.3	-	-	0.0	-	-	0.0	-	-
93.0 70.0	-	32.2	-	6.0	-	-	0.0	-	-	0.0	-	-
93.0 80.0	-	0.0	-	9.1	-	-	0.0	-	-	0.0	-	-

TABLE 4. (cont.)

*Symbolophorus californiensis* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	90.0	0.0	-	34.2	-	-	2.7	-	-	0.0	-	-
93.0	100.0	0.0	-	16.4	-	-	5.0	-	-	0.0	-	-
97.0	50.0	0.0	-	0.0	-	-	5.4	-	-	0.0	-	-
97.0	55.0	0.0	-	0.0	-	-	5.6	-	-	0.0	-	-
97.0	60.0	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
97.0	65.0	0.0	-	12.2	-	-	0.0	-	-	0.0	-	-
97.0	70.0	0.0	-	6.3	-	-	0.0	-	-	0.0	-	-
97.0	80.0	14.8	-	6.0	-	-	0.0	-	-	0.0	-	-
97.0	90.0	0.0	-	30.5	-	-	0.0	-	-	0.0	-	-
100.0	35.0	0.0	-	0.0	-	-	5.6	-	-	0.0	0.0	-
100.0	40.0	2.8	-	0.0	-	-	10.1	-	-	-	3.0	-
100.0	45.0	0.0	-	3.0	-	-	2.7	-	-	-	0.0	-
100.0	50.0	0.0	-	0.0	-	-	12.9	-	-	-	0.0	-
100.0	55.0	0.0	-	0.0	-	-	35.4	-	-	-	0.0	-
100.0	60.0	0.0	-	5.5	-	-	14.4	-	-	-	0.0	-
100.0	65.0	12.3	-	31.5	-	-	7.0	-	-	-	11.6	-
100.0	70.0	5.3	-	11.5	-	-	14.2	-	-	-	2.7	-
100.0	80.0	2.3	-	21.0	-	-	0.0	-	-	-	0.0	-
100.0	85.0	3.0	-	59.0	-	-	0.0	-	-	-	0.0	-
100.0	100.0	0.0	-	2.6	-	-	-	-	-	-	0.0	-
100.0	120.0	0.0	-	2.3	-	-	-	-	-	-	0.0	-
100.0	160.0	-	-	2.7	-	-	-	-	-	-	-	-
103.0	30.0	0.0	-	2.2	-	-	0.0	-	-	0.0	-	-
103.0	35.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
103.0	40.0	0.0	-	19.6	-	-	0.0	-	-	8.2	-	-
103.0	45.0	6.2	-	6.1	-	-	0.0	-	-	0.0	-	-
103.0	50.0	0.0	-	0.0	-	-	2.8	-	-	3.4	-	-
103.0	70.0	3.0	-	2.7	-	-	0.0	-	-	0.0	-	-
103.0	80.0	0.0	-	0.0	-	-	6.1	-	-	13.8	-	-
103.0	90.0	3.3	-	-	-	-	3.0	-	-	0.0	-	-
107.0	40.0	0.0	-	14.6	-	-	0.0	-	-	0.0	-	-
107.0	45.0	0.0	-	5.7	-	-	0.0	-	-	2.9	-	-
107.0	50.0	0.0	-	29.1	-	-	0.0	-	-	0.0	-	-
107.0	55.0	2.4	-	0.0	-	-	2.8	-	-	0.0	-	-
107.0	60.0	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0	80.0	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0	90.0	9.2	-	-	-	-	0.0	-	-	0.0	-	-
110.0	35.0	0.0	-	0.0	-	-	0.0	-	-	0.0	0.0	-
110.0	40.0	0.0	-	5.2	-	-	2.7	-	-	-	0.0	-
110.0	45.0	0.0	-	5.5	-	-	0.0	-	-	-	2.7	-
110.0	50.0	0.0	-	33.1	-	-	0.0	-	-	-	2.6	-
110.0	55.0	0.0	-	5.6	-	-	0.0	-	-	-	0.0	-
110.0	70.0	0.0	-	16.4	-	-	0.0	-	-	-	0.0	-
110.0	100.0	2.6	-	2.3	-	-	-	-	-	-	0.0	-
110.0	120.0	0.0	-	17.9	-	-	-	-	-	-	0.0	-
113.0	45.0	0.0	-	-	-	-	2.5	-	-	0.0	-	-

TABLE 4. (cont.)

*Symbolophorus californiensis* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	50.0	-	-	3.0	-	-	0.0	-	-	0.0	-	-
113.0	60.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
113.0	70.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
113.0	90.0	0.0	-	5.8	-	-	0.0	-	-	0.0	-	-
117.0	40.0	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
117.0	55.0	0.0	-	5.7	-	-	0.0	-	-	0.0	-	-
117.0	70.0	0.0	-	0.0	-	-	5.0	-	-	0.0	-	-
117.0	80.0	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
120.0	55.0	0.0	-	2.5	-	-	0.0	-	-	0.0	0.0	-
127.0	45.0	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-

*Tarletonbeania crenularis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	52.0	-	0.0	-	-	-	-	-	-	0.0	-	-
60.0	55.0	-	7.2	-	-	-	-	-	-	0.0	-	-
60.0	60.0	5.4	43.5	-	-	-	-	-	-	15.3	-	-
60.0	70.0	-	5.6	-	-	-	-	-	-	16.6	-	-
60.0	80.0	-	20.8	-	-	-	-	-	-	2.6	-	-
60.0	90.0	-	9.2	-	-	-	-	-	-	0.0	-	-
60.0	100.0	-	0.0	-	-	-	-	-	-	16.1	-	-
63.0	52.0	-	20.0	-	-	-	-	-	-	5.5	-	-
63.0	55.0	-	52.0	-	-	-	-	-	-	0.0	-	-
63.0	60.0	5.2	0.0	-	-	-	-	-	-	16.6	-	-
67.0	50.0	0.0	11.0	-	-	-	-	-	-	0.0	-	-
67.0	55.0	6.1	37.6	-	-	-	-	-	-	0.0	-	-
67.0	60.0	0.0	69.1	-	-	-	-	-	-	-	-	-
67.0	60.0	0.0	8.0	-	-	-	-	-	-	0.0	-	-
70.0	55.0	-	-	-	-	-	-	-	-	-	-	-
70.0	60.0	2.8	17.1	-	-	-	-	-	-	-	-	-
70.0	70.0	2.5	21.7	-	-	-	-	-	-	5.5	-	-
70.0	80.0	0.0	13.1	-	-	-	-	-	-	8.7	-	-
70.0	90.0	5.4	0.0	-	-	-	-	-	-	0.0	-	-
70.0	100.0	14.7	6.0	-	-	-	-	-	-	-	-	-
70.0	120.0	13.4	0.0	-	-	-	-	-	-	-	-	-
73.0	53.0	0.0	0.0	-	-	-	-	-	-	2.8	-	-
73.0	60.0	5.7	11.0	-	-	-	-	-	-	0.0	-	-
77.0	51.0	0.0	16.7	-	-	-	-	-	-	0.0	-	-
77.0	55.0	0.0	5.4	-	-	-	-	-	-	0.0	-	-
77.0	57.0	0.0	3.0	-	-	-	-	-	-	0.0	-	-
80.0	52.0	0.0	5.3	-	-	-	-	-	-	0.0	-	-
80.0	55.0	0.0	13.6	-	-	-	-	-	-	-	-	-
80.0	60.0	5.8	0.0	-	-	-	-	5.3	-	0.0	-	-
80.0	65.0	0.0	21.9	-	-	-	-	2.6	-	0.0	-	-
80.0	70.0	5.7	1.9	-	-	-	-	-	-	2.8	-	-

TABLE 4. (cont.)

*Tarletonbeania crenularis* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 80.0	3.6	-	2.1	-	-	-	-	3.0	-	0.0	-	-
80.0 90.0	0.0	-	2.8	-	-	-	-	5.9	-	0.0	-	-
80.0 100.0	0.0	-	-	-	-	-	-	3.0	-	0.0	-	-
80.0 120.0	0.0	-	5.7	-	-	-	-	0.0	-	0.0	-	-
83.0 43.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
83.0 55.0	-	0.0	-	5.9	-	-	0.0	-	-	2.6	-	-
83.0 60.0	-	14.5	-	2.9	-	-	11.0	-	-	0.0	-	-
83.0 65.0	-	10.2	-	26.8	-	-	2.8	-	-	2.8	-	-
83.0 70.0	-	5.4	-	8.7	-	-	2.8	-	-	7.8	-	-
83.0 80.0	-	0.0	-	12.0	-	-	2.5	-	-	0.0	-	-
83.0 90.0	-	0.0	-	3.0	-	-	10.6	-	-	0.0	-	-
87.0 40.0	-	2.8	-	0.0	-	-	0.0	-	-	2.1	-	-
87.0 50.0	-	2.1	-	5.8	-	-	0.0	-	-	0.0	-	-
87.0 55.0	-	5.7	-	0.0	-	-	0.0	-	-	0.0	-	-
87.0 60.0	-	36.1	-	3.1	-	-	17.6	-	-	0.0	-	-
87.0 65.0	-	0.0	-	6.1	-	-	0.0	-	-	2.5	-	-
87.0 70.0	-	0.0	-	7.1	-	-	0.0	-	-	0.0	-	-
87.0 80.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
87.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
90.0 30.0	-	-	-	-	-	-	-	2.9	-	-	-	-
90.0 40.0	-	-	-	-	-	-	-	2.4	-	-	2.8	-
90.0 45.0	0.0	-	-	0.0	-	-	-	-	-	-	-	-
90.0 50.0	-	-	-	0.0	-	-	-	5.4	-	0.0	-	-
90.0 70.0	0.0	-	-	0.0	-	-	-	5.3	-	0.0	-	-
90.0 80.0	2.7	-	-	0.0	-	-	-	2.7	-	0.0	-	-
90.0 90.0	0.0	-	-	3.0	-	-	-	0.0	-	0.0	-	-
90.0 100.0	0.0	-	-	0.0	-	-	-	0.0	-	2.8	-	-
93.0 30.0	-	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-
93.0 40.0	-	0.0	-	2.9	-	-	5.1	-	-	0.0	-	-
93.0 45.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
93.0 50.0	-	0.0	-	0.0	-	-	10.2	-	-	0.0	-	-
93.0 55.0	-	0.0	-	0.0	-	-	18.1	-	-	0.0	-	-
93.0 60.0	-	0.0	-	0.0	-	-	7.8	-	-	0.0	-	-
93.0 70.0	-	0.0	-	6.0	-	-	5.4	-	-	0.0	-	-
93.0 80.0	-	0.0	-	0.0	-	-	17.7	-	-	0.0	-	-
97.0 35.0	-	0.0	-	0.0	-	-	5.4	-	-	0.0	-	-
97.0 45.0	-	0.0	-	0.0	-	-	6.0	-	-	0.0	-	-
97.0 50.0	-	0.0	-	3.1	-	-	0.0	-	-	0.0	0.0	-
100.0 35.0	-	0.0	-	0.0	-	-	2.8	-	-	-	0.0	-
100.0 45.0	-	0.0	-	3.0	-	-	0.0	-	-	-	0.0	-
100.0 60.0	-	0.0	-	0.0	-	-	4.8	-	-	-	0.0	-
103.0 40.0	-	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0 32.0	-	0.0	-	0.0	-	-	2.0	-	-	0.0	-	-



TABLE 4. (cont.)

*Synodus spp.*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	35.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
117.0	26.0	0.0	-	0.0	-	-	0.0	-	-	2.0	-	-
117.0	40.0	0.0	-	0.0	-	-	0.0	-	-	29.4	-	-
117.0	45.0	0.0	-	0.0	-	-	0.0	-	-	8.6	-	-
117.0	55.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
118.0	39.0	0.0	-	0.0	-	-	0.0	-	-	17.2	-	-
120.0	30.0	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
120.0	40.0	0.0	-	0.0	-	-	0.0	-	-	3.8	-	-
120.0	45.0	0.0	-	0.0	-	-	0.0	-	-	-	5.1	-
123.0	37.0	0.0	-	0.0	-	-	0.0	-	-	6.6	-	-
123.0	80.0	0.0	-	0.0	-	-	0.0	-	-	5.2	-	-
127.0	34.0	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
130.0	30.0	0.0	-	0.0	-	-	0.0	-	-	-	11.6	-
130.0	35.0	3.4	-	0.0	-	-	0.0	-	-	-	2.8	-
133.0	25.0	0.0	-	0.0	-	-	-	-	-	63.8	-	-
133.0	30.0	0.0	-	0.0	-	-	-	-	-	5.4	-	-
133.0	35.0	0.0	-	0.0	-	-	-	-	-	3.5	-	-
133.0	40.0	0.0	-	0.0	-	-	-	-	-	3.0	-	-
137.0	23.0	7.5	-	0.0	-	-	-	-	-	-	6.2	-
137.0	30.0	0.0	-	0.0	-	-	-	-	-	-	5.4	-
140.0	30.0	2.6	-	0.0	-	-	-	-	-	-	0.0	-

*Merluccius productus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	60.0	0.0	8.7	-	-	-	-	-	-	0.0	-	-
67.0	50.0	-	2.2	-	-	-	-	-	-	0.0	-	-
67.0	55.0	-	3.1	-	-	-	-	-	-	-	-	-
70.0	70.0	0.0	2.4	-	-	-	-	-	-	0.0	-	-
70.0	80.0	0.0	65.5	-	-	-	-	-	-	0.0	-	-
70.0	100.0	0.0	3.0	-	-	-	-	-	-	-	-	-
73.0	53.0	2.2	0.0	-	-	-	-	-	-	0.0	-	-
77.0	51.0	14.3	0.0	-	-	-	-	-	-	0.0	-	-
77.0	55.0	1.4	0.0	-	-	-	-	-	-	0.0	-	-
77.0	57.0	0.0	3.0	-	-	-	-	-	-	0.0	-	-
80.0	52.0	2.7	8.0	-	-	-	-	-	-	0.0	-	-
80.0	55.0	2.7	2.7	-	-	-	-	-	-	0.0	-	-
80.0	60.0	0.0	2.8	-	-	-	-	0.0	-	0.0	-	-
80.0	65.0	2.5	8.2	-	-	-	-	0.0	-	0.0	-	-
80.0	70.0	0.0	1.9	-	-	-	-	0.0	-	0.0	-	-
80.0	80.0	0.0	34.2	-	-	-	-	0.0	-	0.0	-	-
82.0	47.0	53.0	94.2	-	-	-	-	0.0	-	0.0	-	-
83.0	43.0	2.7	-	6.0	-	-	0.0	-	-	0.0	-	-
83.0	51.0	17.3	-	22.7	-	-	0.0	-	-	0.0	-	-
			-	20.9	-	-	0.0	-	-	0.0	-	-

TABLE 4. (cont.)

*Merluccius productus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	55.0	5.3	-	2.9	-	-	0.0	-	-	0.0	-	-
83.0	60.0	5.8	-	32.0	-	-	0.0	-	-	0.0	-	-
83.0	65.0	0.0	-	26.8	-	-	0.0	-	-	0.0	-	-
83.0	70.0	320.1	-	5.8	-	-	0.0	-	-	0.0	-	-
83.0	80.0	35.4	-	6.0	-	-	0.0	-	-	0.0	-	-
83.0	90.0	2.7	-	14.8	-	-	0.0	-	-	0.0	-	-
87.0	35.0	24.8	-	32.0	-	-	0.0	-	-	0.0	-	-
87.0	40.0	13.9	-	28.1	-	-	0.0	-	-	0.0	-	-
87.0	45.0	130.6	-	19.1	-	-	0.0	-	-	0.0	-	-
87.0	50.0	16.9	-	2.9	-	-	0.0	-	-	0.0	-	-
87.0	55.0	1727.1	-	24.4	-	-	0.0	-	-	0.0	-	-
87.0	60.0	5213.3	-	15.3	-	-	0.0	-	-	0.0	-	-
87.0	65.0	2383.9	-	9.2	-	-	0.0	-	-	0.0	-	-
87.0	70.0	0.0	-	60.5	-	-	0.0	-	-	0.0	-	-
87.0	80.0	0.0	-	14.8	-	-	0.0	-	-	0.0	-	-
87.0	90.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
90.0	28.0	-	-	35.5	-	-	-	0.0	-	-	0.0	-
90.0	32.0	28.7	-	47.2	-	-	-	-	-	-	0.0	-
90.0	37.0	10.1	-	26.2	-	-	-	-	-	-	0.0	-
90.0	45.0	41.5	-	42.1	-	-	-	-	-	-	0.0	-
90.0	53.0	-	-	22.9	-	-	-	0.0	-	-	0.0	-
90.0	60.0	-	-	28.0	-	-	-	-	-	0.0	-	-
90.0	65.0	-	-	32.3	-	-	-	0.0	-	0.0	-	-
90.0	70.0	-	-	137.5	-	-	-	0.0	-	0.0	-	-
90.0	80.0	-	-	32.6	-	-	-	0.0	-	0.0	-	-
90.0	90.0	-	-	14.9	-	-	-	0.0	-	0.0	-	-
93.0	28.0	23.1	-	54.8	-	-	0.0	-	-	0.0	-	-
93.0	30.0	28.5	-	23.4	-	-	0.0	-	-	0.0	-	-
93.0	35.0	5.6	-	89.4	-	-	0.0	-	-	0.0	-	-
93.0	40.0	75.3	-	17.2	-	-	0.0	-	-	0.0	-	-
93.0	45.0	11.9	-	11.4	-	-	0.0	-	-	0.0	-	-
93.0	50.0	48.2	-	2.8	-	-	0.0	-	-	0.0	-	-
93.0	55.0	3.0	-	29.0	-	-	0.0	-	-	0.0	-	-
93.0	60.0	0.0	-	29.0	-	-	0.0	-	-	0.0	-	-
93.0	65.0	0.0	-	85.5	-	-	0.0	-	-	0.0	-	-
93.0	70.0	0.0	-	107.3	-	-	0.0	-	-	0.0	-	-
93.0	80.0	0.0	-	12.1	-	-	0.0	-	-	0.0	-	-
93.0	90.0	0.0	-	22.8	-	-	0.0	-	-	0.0	-	-
93.0	100.0	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
97.0	30.0	194.7	-	4.4	-	-	0.0	-	-	0.0	-	-
97.0	32.0	1007.5	-	19.1	-	-	-	-	-	0.0	-	-
97.0	35.0	0.0	-	35.1	-	-	0.0	-	-	0.0	-	-
97.0	40.0	11.7	-	11.7	-	-	0.0	-	-	0.0	-	-
97.0	45.0	139.1	-	22.3	-	-	0.0	-	-	0.0	-	-
97.0	50.0	80.9	-	37.2	-	-	0.0	-	-	0.0	-	-
97.0	55.0	3.2	-	24.4	-	-	0.0	-	-	0.0	-	-

TABLE 4. (cont.)

<i>Merluccius productus</i> (cont.)											
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
97.0	60.0	13.0	-	25.8	-	-	0.0	-	-	0.0	-
97.0	65.0	0.0	-	33.7	-	-	0.0	-	-	0.0	-
97.0	70.0	0.0	-	41.1	-	-	0.0	-	-	0.0	-
97.0	80.0	0.0	-	9.0	-	-	0.0	-	-	0.0	-
97.0	90.0	0.0	-	27.4	-	-	0.0	-	-	0.0	-
100.0	30.0	-	-	31.2	-	-	0.0	-	-	-	0.0
100.0	35.0	43.4	-	8.6	-	-	0.0	-	-	-	0.0
100.0	40.0	0.0	-	6.3	-	-	0.0	-	-	-	0.0
100.0	45.0	0.0	-	79.0	-	-	0.0	-	-	-	0.0
100.0	50.0	2.4	-	147.7	-	-	0.0	-	-	-	0.0
100.0	55.0	8.9	-	8.3	-	-	0.0	-	-	-	0.0
100.0	60.0	0.0	-	5.5	-	-	0.0	-	-	-	0.0
100.0	65.0	0.0	-	200.2	-	-	0.0	-	-	-	0.0
100.0	70.0	0.0	-	187.2	-	-	0.0	-	-	-	0.0
100.0	80.0	0.0	-	165.7	-	-	0.0	-	-	-	0.0
100.0	90.0	0.0	-	297.9	-	-	0.0	-	-	-	0.0
100.0	100.0	0.0	-	5.2	-	-	-	-	-	-	0.0
103.0	30.0	8.4	-	32.7	-	-	0.0	-	-	0.0	-
103.0	35.0	220.3	-	157.9	-	-	0.0	-	-	0.0	-
103.0	40.0	65.8	-	243.6	-	-	0.0	-	-	0.0	-
103.0	45.0	6.2	-	42.8	-	-	0.0	-	-	0.0	-
103.0	50.0	0.0	-	6.0	-	-	0.0	-	-	0.0	-
103.0	55.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-
103.0	70.0	0.0	-	2.7	-	-	0.0	-	-	0.0	-
103.0	80.0	0.0	-	5.0	-	-	0.0	-	-	0.0	-
107.0	32.0	13.7	-	13.0	-	-	0.0	-	-	0.0	-
107.0	35.0	18.3	-	52.9	-	-	0.0	-	-	0.0	-
107.0	40.0	0.0	-	119.7	-	-	0.0	-	-	0.0	-
107.0	45.0	13.9	-	39.8	-	-	0.0	-	-	0.0	-
107.0	50.0	0.0	-	148.4	-	-	0.0	-	-	0.0	-
107.0	55.0	0.0	-	2.8	-	-	0.0	-	-	0.0	-
107.0	60.0	0.0	-	2.7	-	-	0.0	-	-	0.0	-
110.0	32.0	-	-	15.0	-	-	0.0	-	-	-	0.0
110.0	33.0	248.7	-	-	-	-	-	-	-	-	-
110.0	35.0	2.9	-	17.2	-	-	0.0	-	-	-	2.7
110.0	40.0	2.5	-	0.0	-	-	0.0	-	-	-	0.0
110.0	50.0	0.0	-	6.0	-	-	0.0	-	-	-	0.0
113.0	30.0	0.0	-	0.0	-	-	0.0	-	-	2.2	-
113.0	35.0	0.0	-	9.2	-	-	0.0	-	-	0.0	-
113.0	40.0	0.0	-	43.1	-	-	0.0	-	-	0.0	-
113.0	45.0	20.8	-	6.0	-	-	0.0	-	-	0.0	-
115.0	35.0	2.6	-	-	30.6	-	0.0	-	-	-	6.0
117.0	26.0	0.0	-	36.7	-	-	0.0	-	-	0.0	-
117.0	30.0	8.6	-	200.6	-	-	0.0	-	-	0.0	-
117.0	35.0	6.1	-	37.4	-	-	0.0	-	-	0.0	-
117.0	40.0	32.0	-	46.4	-	-	0.0	-	-	0.0	-

TABLE 4. (cont.)

*Merluccius productus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	45.0	148.9	-	53.8	-	-	0.0	-	-	0.0	-	-
117.0	50.0	24.6	-	48.8	-	-	0.0	-	-	0.0	-	-
117.0	55.0	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0	60.0	0.0	-	2.4	-	-	0.0	-	-	0.0	-	-
118.0	39.0	23.8	-	35.5	-	-	2.7	-	-	0.0	-	-
120.0	25.0	0.0	-	4.6	-	-	0.0	-	-	0.0	-	-
120.0	30.0	10.9	-	7.6	-	-	0.0	-	-	0.0	-	-
120.0	35.0	0.0	-	0.0	-	-	4.4	-	-	0.0	-	-
120.0	45.0	12.1	-	2.9	-	-	0.0	-	-	-	0.0	-
120.0	50.0	32.6	-	51.0	-	-	0.0	-	-	-	0.0	-
120.0	55.0	14.9	-	15.2	-	-	0.0	-	-	-	0.0	-
123.0	37.0	86.9	-	8.0	-	-	0.0	-	-	0.0	-	-
123.0	42.0	18.6	-	5.4	-	-	2.6	-	-	0.0	-	-
123.0	45.0	8.6	-	8.1	-	-	0.0	-	-	0.0	-	-
123.0	50.0	2.8	-	0.0	-	-	0.0	-	-	0.0	-	-
123.0	55.0	8.4	-	0.0	-	-	0.0	-	-	0.0	-	-
123.0	60.0	3.0	-	11.2	-	-	0.0	-	-	0.0	-	-
127.0	34.0	2.5	-	2.9	-	-	0.0	-	-	0.0	-	-
127.0	40.0	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0	50.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
127.0	65.0	14.7	-	0.0	-	-	0.0	-	-	0.0	-	-
130.0	35.0	309.4	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	40.0	211.0	-	5.7	-	-	0.0	-	-	-	0.0	-
130.0	45.0	2.5	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	50.0	7.7	-	0.0	-	-	0.0	-	-	-	0.0	-
133.0	25.0	12.8	-	0.0	-	-	-	-	-	0.0	-	-
133.0	30.0	545.0	-	0.0	-	-	-	-	-	0.0	-	-
133.0	35.0	445.5	-	2.7	-	-	-	-	-	0.0	-	-
133.0	40.0	34.1	-	0.0	-	-	-	-	-	0.0	-	-
133.0	45.0	13.6	-	0.0	-	-	-	-	-	0.0	-	-
137.0	23.0	4.5	-	4.3	-	-	-	-	-	-	0.0	-
137.0	30.0	306.2	-	5.7	-	-	-	-	-	-	0.0	-
137.0	35.0	141.6	-	2.9	-	-	-	-	-	-	0.0	-
137.0	40.0	5.3	-	0.0	-	-	-	-	-	-	0.0	-
140.0	30.0	59.3	-	2.5	-	-	-	-	-	-	0.0	-
140.0	35.0	56.1	-	5.7	-	-	-	-	-	-	0.0	-
140.0	45.0	2.5	-	0.0	-	-	-	-	-	-	0.0	-

*Physiculus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0	40.0	-	-	0.0	-	-	-	-	-	3.0	-	-

TABLE 4. (cont.)

## Macrouridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
63.0 55.0	0.0	-	3.1	-	-	-	-	-	-	0.0	-	-
70.0 200.0	0.0	-	2.8	-	-	-	-	-	-	0.0	-	-
93.0 35.0	-	0.0	-	0.0	-	-	2.9	-	-	0.0	-	-
100.0 160.0	-	-	-	2.7	-	-	-	-	-	-	-	-
103.0 50.0	-	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
123.0 50.0	-	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-

## Ophidiiformes

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0 60.0	5.7	-	0.0	-	-	-	-	-	-	0.0	-	-
83.0 51.0	-	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
87.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	5.1	-	-
97.0 30.0	-	31.9	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0 30.0	-	0.0	-	4.6	-	-	0.0	-	-	0.0	-	-
117.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	13.4	-	-
117.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
118.0 39.0	-	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
120.0 25.0	-	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
120.0 35.0	-	5.2	-	0.0	-	-	2.1	-	-	0.0	-	-
120.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	49.4	-	-
120.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	42.2	-	-
133.0 25.0	-	0.0	-	2.5	-	-	0.0	-	-	-	0.0	-
133.0 30.0	-	0.0	-	0.0	-	-	-	-	-	2.5	-	-
140.0 35.0	-	0.0	-	0.0	-	-	-	-	-	2.7	-	-
		0.0	-	5.7	-	-	-	-	-	-	0.0	-

*Brosmophycis marginata*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0 35.0	-	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
117.0 50.0	-	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-

## Carapidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0 45.0	-	0.0	-	2.7	-	-	-	-	-	0.0	-	-

*Chilara taylori*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0 80.0	0.0	-	0.0	-	-	-	-	-	-	2.9	-	-
77.0 55.0	0.0	-	0.0	-	-	-	-	-	-	2.7	-	-



TABLE 4. (cont.)

*Chilara taylora* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	53.0	-	-	-	-	-	-	2.5	-	-	-	-
80.0	60.0	-	-	-	-	-	-	0.0	-	3.8	-	-
87.0	40.0	0.0	0.0	0.0	-	-	0.0	-	-	2.1	-	-
87.0	45.0	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
87.0	65.0	0.0	-	0.0	-	-	0.0	-	-	5.1	-	-
93.0	30.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
93.0	45.0	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
93.0	65.0	0.0	-	0.0	-	-	11.0	-	-	0.0	-	-
93.0	90.0	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
97.0	45.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
97.0	55.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
100.0	35.0	0.0	-	0.0	-	-	2.8	-	-	0.0	0.0	-
103.0	35.0	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
103.0	45.0	0.0	-	0.0	-	-	0.0	-	-	3.1	-	-
107.0	35.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
107.0	50.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
107.0	55.0	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
107.0	65.0	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
107.0	70.0	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
110.0	40.0	0.0	-	0.0	-	-	0.0	-	-	-	2.6	-
115.0	35.0	0.0	-	0.0	0.0	-	0.0	-	-	-	3.0	-
117.0	26.0	0.0	-	-	-	-	0.0	-	-	-	-	-
117.0	40.0	0.0	-	0.0	-	-	0.0	-	-	2.0	-	-
117.0	45.0	0.0	-	0.0	-	-	0.0	-	-	5.3	-	-
118.0	39.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
123.0	65.0	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
123.0	70.0	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
127.0	40.0	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0	55.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
							2.4	-	-	0.0	-	-

*Ophidion scrippsae*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	50.0	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
90.0	28.0	-	-	0.0	-	-	-	24.6	-	-	0.0	-
90.0	30.0	-	-	-	-	-	-	20.5	-	-	-	-
93.0	30.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
113.0	30.0	0.0	-	0.0	-	-	0.0	-	-	2.2	-	-
118.0	39.0	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-
120.0	25.0	0.0	-	0.0	-	-	6.3	-	-	0.0	-	-
127.0	50.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
130.0	30.0	0.0	-	0.0	-	-	0.0	-	-	-	8.7	-
133.0	25.0	0.0	-	0.0	-	-	-	-	-	66.3	-	-

TABLE 4. (cont.)

## Ceratioidei

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 160.0	0.0	-	0.0	-	-	-	-	-	-	5.7	-	-
60.0 180.0	0.0	-	0.0	-	-	-	-	-	-	5.7	-	-
60.0 200.0	0.0	-	0.0	-	-	-	-	-	-	2.8	-	-
70.0 200.0	0.0	-	0.0	-	-	-	-	-	-	2.7	-	-
80.0 150.0	-	-	-	-	-	-	-	2.7	-	-	-	-
80.0 160.0	-	-	-	-	-	-	-	2.8	-	-	-	-
80.0 190.0	-	-	-	-	-	-	-	5.3	-	-	-	-
90.0 120.0	0.0	-	-	0.0	-	-	-	2.4	-	5.8	-	-
90.0 130.0	-	-	-	-	-	-	-	12.6	-	-	-	-
90.0 140.0	0.0	-	-	0.0	-	-	-	2.5	-	2.6	-	-
90.0 150.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 160.0	0.0	-	-	0.0	-	-	-	5.0	-	0.0	-	-
90.0 170.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 180.0	0.0	-	-	0.0	-	-	-	2.4	-	0.0	-	-
100.0 80.0	-	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-
100.0 100.0	-	0.0	-	0.0	-	-	-	-	-	-	4.9	-
103.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
103.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	5.5	-	-
110.0 160.0	-	-	-	2.7	-	-	-	-	-	-	-	-
113.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
117.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
117.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-
120.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.6	-
127.0 34.0	-	0.0	-	0.0	-	-	6.8	-	-	0.0	-	-

## Cololabis saira

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
97.0 65.0	-	0.0	-	0.0	-	-	6.2	-	-	0.0	-	-
103.0 65.0	-	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0 50.0	-	2.6	-	0.0	-	-	2.8	-	-	0.0	-	-
113.0 55.0	-	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-

## Trachipteridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
63.0 60.0	0.0	-	0.0	-	-	-	-	-	-	2.8	-	-
70.0 90.0	0.0	-	0.0	-	-	-	-	-	-	2.6	-	-
80.0 60.0	0.0	-	0.0	-	-	-	-	0.0	-	3.8	-	-
80.0 65.0	2.5	-	0.0	-	-	-	-	-	-	0.0	-	-
80.0 80.0	0.0	-	2.1	-	-	-	-	0.0	-	0.0	-	-
80.0 140.0	-	-	-	-	-	-	-	-	-	-	-	-
83.0 80.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-

TABLE 4. (cont.)

## Trachipteridae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0 90.0	-	0.0	-	0.0	-	-	2.7	-	-	3.0	-	-
90.0 65.0	0.0	-	-	0.0	-	-	-	-	-	2.8	-	-
90.0 80.0	2.7	-	-	0.0	-	-	-	0.0	-	0.0	-	-
90.0 90.0	0.0	-	-	3.0	-	-	-	0.0	-	0.0	-	-
90.0 120.0	0.0	-	-	0.0	-	-	-	0.0	-	2.9	-	-
90.0 130.0	-	-	-	-	-	-	-	2.5	-	-	-	-
93.0 30.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
93.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	5.8	-	-
97.0 40.0	-	0.0	-	0.0	-	-	4.8	-	-	-	-	-
97.0 45.0	-	0.0	-	0.0	-	-	3.0	-	-	0.0	-	-
97.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
100.0 45.0	-	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
103.0 70.0	-	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
103.0 90.0	-	0.0	-	-	-	-	3.0	-	-	0.0	-	-
107.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
113.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
123.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0 50.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
140.0 45.0	-	2.5	-	0.0	-	-	-	-	-	-	0.0	-

## Melamphaes spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 70.0	-	-	0.0	-	-	-	-	-	-	2.8	-	-
60.0 90.0	-	-	6.9	-	-	-	-	-	-	0.0	-	-
60.0 160.0	0.0	-	5.8	-	-	-	-	-	-	0.0	-	-
67.0 55.0	0.0	-	3.1	-	-	-	-	-	-	-	-	-
67.0 60.0	0.0	-	8.6	-	-	-	-	-	-	-	-	-
70.0 80.0	0.0	-	7.9	-	-	-	-	-	-	0.0	-	-
70.0 90.0	0.0	-	2.7	-	-	-	-	-	-	0.0	-	-
70.0 100.0	2.5	-	3.0	-	-	-	-	-	-	2.7	-	-
70.0 200.0	0.0	-	2.8	-	-	-	-	-	-	0.0	-	-
80.0 65.0	0.0	-	8.2	-	-	-	-	0.0	-	0.0	-	-
80.0 70.0	2.9	-	1.9	-	-	-	-	5.1	-	0.0	-	-
80.0 130.0	-	-	-	-	-	-	-	2.5	-	-	-	-
80.0 140.0	-	-	-	-	-	-	-	5.6	-	-	-	-
80.0 160.0	-	-	-	-	-	-	-	5.3	-	-	-	-
80.0 170.0	-	-	-	-	-	-	-	7.8	-	0.0	-	-
80.0 200.0	0.0	-	-	7.5	-	-	2.8	-	-	0.0	-	-
83.0 65.0	-	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
83.0 70.0	-	2.7	-	0.0	-	-	2.5	-	-	0.0	-	-
83.0 80.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
83.0 90.0	-	2.7	-	5.9	-	-	0.0	-	-	0.0	-	-
87.0 65.0	-	9.2	-	0.0	-	-	0.0	-	-	0.0	-	-
90.0 60.0	0.0	-	-	0.0	-	-	-	2.4	-	-	0.0	-

TABLE 4. (cont.)

*Melamphaes* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	70.0	-	-	0.0	-	-	-	2.7	-	0.0	-	-
90.0	90.0	-	-	6.0	-	-	-	0.0	-	0.0	-	-
90.0	100.0	-	-	2.8	-	-	-	0.0	-	0.0	-	-
90.0	120.0	-	-	2.9	-	-	-	0.0	-	0.0	-	-
90.0	160.0	-	-	2.9	-	-	-	0.0	-	0.0	-	-
90.0	180.0	-	-	5.4	-	-	-	0.0	-	0.0	-	-
90.0	200.0	-	-	16.6	-	-	-	2.4	-	5.4	-	-
93.0	40.0	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
93.0	50.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
93.0	55.0	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
93.0	60.0	0.0	-	2.6	-	-	0.0	-	-	0.0	-	-
93.0	65.0	0.0	-	8.6	-	-	0.0	-	-	0.0	-	-
93.0	70.0	2.9	-	3.0	-	-	0.0	-	-	0.0	-	-
93.0	100.0	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
97.0	65.0	2.5	-	3.2	-	-	0.0	-	-	0.0	-	-
97.0	70.0	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0	90.0	0.0	-	0.0	-	-	6.5	-	-	0.0	-	-
100.0	45.0	0.0	-	12.2	-	-	2.7	-	-	2.6	-	-
100.0	55.0	0.0	-	2.8	-	-	0.0	-	-	-	0.0	-
100.0	60.0	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
100.0	65.0	0.0	-	5.7	-	-	0.0	-	-	-	0.0	-
100.0	70.0	2.6	-	0.0	-	-	4.7	-	-	-	0.0	-
100.0	80.0	0.0	-	7.9	-	-	0.0	-	-	-	0.0	-
100.0	90.0	0.0	-	11.2	-	-	9.6	-	-	-	0.0	-
100.0	120.0	0.0	-	4.5	-	-	-	-	-	-	0.0	-
103.0	40.0	0.0	-	2.8	-	-	0.0	-	-	2.7	-	-
103.0	45.0	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
103.0	50.0	0.0	-	3.0	-	-	2.8	-	-	0.0	-	-
103.0	55.0	3.2	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0	35.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
107.0	45.0	0.0	-	8.5	-	-	0.0	-	-	0.0	-	-
107.0	55.0	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
107.0	70.0	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
107.0	90.0	0.0	-	-	-	-	0.0	-	-	2.7	-	-
110.0	40.0	0.0	-	2.6	-	-	0.0	-	-	-	0.0	-
110.0	50.0	0.0	-	6.0	-	-	0.0	-	-	-	0.0	-
110.0	90.0	0.0	-	2.9	-	-	0.0	-	-	-	0.0	-
110.0	160.0	-	-	8.0	-	-	-	-	-	-	-	-
113.0	55.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
113.0	65.0	2.7	-	0.0	-	-	0.0	-	-	5.2	-	-
113.0	70.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
113.0	80.0	2.7	-	0.0	-	-	0.0	-	-	2.8	-	-
113.0	90.0	0.0	-	5.8	-	-	0.0	-	-	0.0	-	-
117.0	80.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
117.0	90.0	0.0	-	0.0	-	-	2.4	-	-	3.0	-	-
120.0	45.0	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-

TABLE 4. (cont.)

*Melamphaes* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0 65.0	-	0.0	-	0.0	-	-	2.5	-	-	-	0.0	-
120.0 80.0	-	0.0	-	0.0	-	-	5.0	-	-	-	0.0	-
120.0 90.0	-	0.0	-	0.0	-	-	12.0	-	-	-	0.0	-
123.0 80.0	-	0.0	-	0.0	-	-	5.2	-	-	0.0	-	-
127.0 60.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
127.0 65.0	-	0.0	-	0.0	-	-	4.9	-	-	0.0	-	-
127.0 70.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
130.0 50.0	-	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
130.0 80.0	-	2.5	-	0.0	-	-	5.2	-	-	-	0.0	-
130.0 90.0	-	0.0	-	2.6	-	-	0.0	-	-	-	0.0	-
133.0 55.0	-	0.0	-	2.7	-	-	-	-	-	0.0	-	-
133.0 65.0	-	2.8	-	0.0	-	-	-	-	-	0.0	-	-
133.0 80.0	-	0.0	-	0.0	-	-	-	-	-	5.4	-	-
137.0 45.0	-	0.0	-	2.7	-	-	-	-	-	-	0.0	-
137.0 60.0	-	5.3	-	0.0	-	-	-	-	-	-	0.0	-
137.0 70.0	-	0.0	-	2.6	-	-	-	-	-	-	0.0	-
137.0 80.0	-	2.6	-	0.0	-	-	-	-	-	-	0.0	-

*Poromitra* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 90.0	-	-	0.0	-	-	-	-	-	-	2.2	-	-
70.0 80.0	0.0	-	2.6	-	-	-	-	-	-	0.0	-	-
70.0 90.0	0.0	-	0.0	-	-	-	-	-	-	2.6	-	-
80.0 140.0	-	-	-	-	-	-	-	2.5	-	-	-	-
83.0 80.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
90.0 160.0	0.0	-	-	0.0	-	-	-	2.5	-	0.0	-	-
93.0 90.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
97.0 80.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
103.0 40.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
103.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
103.0 70.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
110.0 40.0	-	0.0	-	2.6	-	-	0.0	-	-	-	0.0	-
110.0 50.0	-	0.0	-	0.0	-	-	3.0	-	-	-	0.0	-
113.0 35.0	-	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-
113.0 60.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
113.0 80.0	-	2.7	-	0.0	-	-	0.0	-	-	5.6	-	-
117.0 65.0	-	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-

*Scopeloberyx robustus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0 180.0	0.0	-	-	0.0	-	-	-	0.0	-	2.6	-	-
100.0 70.0	-	0.0	-	0.0	-	-	-	-	-	-	2.7	-



TABLE 4. (cont.)

*Scopelogadus bispinosus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0 100.0	0.0	-	3.0	-	-	-	-	-	-	-	-	-
80.0 80.0	1.8	-	0.0	-	-	-	-	0.0	-	0.0	-	-
80.0 150.0	-	-	-	-	-	-	-	2.7	-	-	-	-
80.0 200.0	0.0	-	-	-	-	-	-	0.0	-	2.6	-	-
87.0 80.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
90.0 100.0	0.0	-	-	0.0	-	-	-	2.6	-	0.0	-	-
90.0 110.0	-	-	-	-	-	-	-	5.1	-	-	-	-
90.0 130.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 140.0	0.0	-	-	0.0	-	-	-	2.5	-	0.0	-	-
90.0 160.0	0.0	-	-	0.0	-	-	-	2.5	-	0.0	-	-
93.0 28.0	-	-	-	2.6	-	-	0.0	-	-	0.0	-	-
93.0 70.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
97.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-
100.0 55.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
100.0 80.0	-	0.0	-	0.0	-	-	2.6	-	-	-	2.7	-
103.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
107.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
107.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
107.0 80.0	-	0.0	-	0.0	-	-	3.2	-	-	0.0	-	-
107.0 90.0	-	0.0	-	-	-	-	0.0	-	-	2.7	-	-
110.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-
110.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.9	-
113.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
117.0 60.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
120.0 55.0	-	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
120.0 60.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
120.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.6	-
123.0 45.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
123.0 50.0	-	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
123.0 80.0	-	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
130.0 60.0	-	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-
130.0 70.0	-	0.0	-	0.0	-	-	5.1	-	-	-	0.0	-
133.0 70.0	-	0.0	-	0.0	-	-	-	-	-	2.6	-	-

*Macroramphosus gracilis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
113.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
113.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
117.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	5.9	-	-
130.0 90.0	-	2.6	-	0.0	-	-	0.0	-	-	-	0.0	-
137.0 80.0	-	2.6	-	0.0	-	-	-	-	-	-	0.0	-

TABLE 4. (cont.)

*Syngnathus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 53.0	-	-	-	-	-	-	-	2.5	-	-	-	-
103.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
115.0 35.0	-	0.0	-	-	0.0	-	0.0	-	-	-	3.0	-
130.0 30.0	-	0.0	-	0.0	-	-	4.9	-	-	-	0.0	-
137.0 35.0	-	2.9	-	0.0	-	-	-	-	-	-	0.0	-

## Agonidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
63.0 52.0	2.1	-	0.0	-	-	-	-	-	-	0.0	-	-
87.0 45.0	-	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
90.0 28.0	0.0	-	-	3.2	-	-	-	0.0	-	-	0.0	-
107.0 35.0	-	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
120.0 30.0	-	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
120.0 45.0	-	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-

## Cottidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 52.0	2.0	-	0.0	-	-	-	-	-	-	0.0	-	-
60.0 55.0	2.9	-	0.0	-	-	-	-	-	-	0.0	-	-
60.0 70.0	-	-	0.0	-	-	-	-	-	-	2.8	-	-
63.0 55.0	2.8	-	0.0	-	-	-	-	-	-	0.0	-	-
67.0 50.0	1.8	-	0.0	-	-	-	-	-	-	0.0	-	-
70.0 53.0	2.6	-	0.0	-	-	-	-	-	-	0.0	-	-
80.0 60.0	0.0	-	0.0	-	-	-	-	2.7	-	0.0	-	-
80.0 90.0	0.0	-	0.0	-	-	-	-	3.0	-	0.0	-	-
83.0 40.0	-	0.0	-	0.0	-	-	5.0	-	-	0.0	-	-
83.0 43.0	-	0.0	-	0.0	-	-	5.3	-	-	0.0	-	-
83.0 51.0	-	2.5	-	3.0	-	-	0.0	-	-	0.0	-	-
83.0 55.0	-	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
87.0 50.0	-	4.2	-	14.6	-	-	0.0	-	-	0.0	-	-
87.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
97.0 30.0	-	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
103.0 30.0	-	0.0	-	0.0	-	-	3.5	-	-	0.0	-	-
107.0 35.0	-	0.0	-	6.2	-	-	0.0	-	-	0.0	0.0	-
110.0 32.0	-	-	-	0.0	-	-	2.3	-	-	-	-	-
110.0 33.0	-	9.2	-	-	-	-	-	-	-	-	-	-

*Scorpaenichthys marmoratus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
67.0 50.0	0.0	-	2.2	-	-	-	-	-	-	0.0	-	-

TABLE 4. (cont.)

*Scorpaenichthys marmoratus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0 51.0	-	2.5	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0 32.0	-	5.7	-	0.0	-	-	-	-	-	0.0	-	-

## Cyclopteridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0 51.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
97.0 30.0	-	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-

## Hexagrammidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0 30.0	-	1.8	-	0.0	-	-	0.0	-	-	0.0	-	-

*Oxylebius pictus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 55.0	5.8	-	0.0	-	-	-	-	-	-	0.0	-	-
77.0 51.0	2.0	-	0.0	-	-	-	-	-	-	0.0	-	-
83.0 55.0	-	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-

*Zaniolepis* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0 51.0	2.0	-	0.0	-	-	-	-	-	-	0.0	-	-
80.0 52.0	2.7	-	0.0	-	-	-	-	-	-	0.0	-	-
82.0 47.0	-	3.3	-	0.0	-	-	0.0	-	-	0.0	-	-
87.0 35.0	-	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
97.0 30.0	-	0.0	-	0.0	-	-	0.0	-	-	2.0	-	-
97.0 32.0	-	2.8	-	0.0	-	-	-	-	-	0.0	-	-
120.0 25.0	-	2.5	-	0.0	-	-	0.0	-	-	0.0	-	-
120.0 30.0	-	0.0	-	2.5	-	-	0.0	-	-	0.0	-	-
123.0 37.0	-	2.3	-	0.0	-	-	0.0	-	-	0.0	-	-

## Scorpaenidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-

TABLE 4. (cont.)

*Scorpaena* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	35.0	-	-	0.0	-	-	2.8	-	-	-	0.0	-
113.0	45.0	-	-	0.0	-	-	0.0	-	-	3.0	-	-
113.0	55.0	-	-	0.0	-	-	0.0	-	-	2.7	-	-
117.0	60.0	-	-	0.0	-	-	2.5	-	-	0.0	-	-
117.0	65.0	-	-	0.0	-	-	5.0	-	-	0.0	-	-
127.0	34.0	-	-	0.0	-	-	2.3	-	-	0.0	-	-
127.0	40.0	-	-	0.0	-	-	24.7	-	-	0.0	-	-
127.0	45.0	-	-	0.0	-	-	23.2	-	-	0.0	-	-
130.0	35.0	-	-	0.0	-	-	5.8	-	-	-	0.0	-
130.0	50.0	-	-	0.0	-	-	2.7	-	-	-	0.0	-
140.0	35.0	-	-	0.0	-	-	-	-	-	-	3.0	-

*Sebastes* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	52.0	-	0.0	-	-	-	-	-	-	9.8	-	-
60.0	55.0	-	57.6	-	-	-	-	-	-	18.8	-	-
60.0	60.0	-	34.8	-	-	-	-	-	-	85.7	-	-
60.0	70.0	-	0.0	-	-	-	-	-	-	2.8	-	-
63.0	52.0	-	752.6	-	-	-	-	-	-	19.4	-	-
63.0	55.0	-	731.3	-	-	-	-	-	-	576.0	-	-
63.0	60.0	-	41.8	-	-	-	-	-	-	22.2	-	-
67.0	50.0	-	338.8	-	-	-	-	-	-	8.2	-	-
67.0	55.0	-	72.0	-	-	-	-	-	-	-	-	-
67.0	60.0	-	8.6	-	-	-	-	-	-	-	-	-
70.0	53.0	-	250.0	-	-	-	-	-	-	10.2	-	-
70.0	55.0	-	16.6	-	-	-	-	-	-	-	-	-
70.0	60.0	-	11.4	-	-	-	-	-	-	-	-	-
70.0	80.0	-	0.0	-	-	-	-	-	-	2.9	-	-
73.0	53.0	-	53.1	-	-	-	-	-	-	8.4	-	-
73.0	60.0	-	35.2	-	-	-	-	-	-	5.7	-	-
77.0	51.0	-	64.2	-	-	-	-	-	-	20.9	-	-
77.0	55.0	-	8.1	-	-	-	-	-	-	10.9	-	-
77.0	57.0	-	26.6	-	-	-	-	-	-	19.9	-	-
80.0	52.0	-	114.4	-	-	-	-	-	-	13.7	-	-
80.0	53.0	-	-	-	-	-	-	46.5	-	-	-	-
80.0	55.0	-	59.6	-	-	-	-	5.3	-	-	-	-
80.0	60.0	-	2.8	-	-	-	-	-	-	3.8	-	-
80.0	65.0	-	0.0	-	-	-	-	0.0	-	2.4	-	-
80.0	70.0	-	0.0	-	-	-	-	-	-	5.6	-	-
82.0	47.0	86.1	-	42.3	-	-	0.0	-	-	29.2	-	-
83.0	40.0	0.0	-	0.8	-	-	0.0	-	-	0.0	-	-
83.0	43.0	16.1	-	68.2	-	-	0.0	-	-	34.7	-	-
83.0	51.0	214.9	-	47.8	-	-	15.4	-	-	10.4	-	-
83.0	55.0	111.7	-	67.4	-	-	5.5	-	-	20.8	-	-

TABLE 4. (cont.)

Sebastes spp. (cont.)											
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
83.0	60.0	63.8	-	14.6	-	-	0.0	-	-	0.0	-
83.0	65.0	30.7	-	23.8	-	-	5.6	-	-	2.8	-
83.0	70.0	10.8	-	5.8	-	-	0.0	-	-	0.0	-
83.0	80.0	5.4	-	3.0	-	-	0.0	-	-	0.0	-
87.0	35.0	77.0	-	57.6	-	-	0.0	-	-	9.4	-
87.0	40.0	72.3	-	68.6	-	-	17.3	-	-	6.3	-
87.0	45.0	52.9	-	470.6	-	-	6.3	-	-	3.0	-
87.0	50.0	80.2	-	113.5	-	-	10.3	-	-	20.6	-
87.0	55.0	34.2	-	65.9	-	-	0.0	-	-	8.2	-
87.0	60.0	18.1	-	0.0	-	-	0.0	-	-	5.1	-
87.0	65.0	0.0	-	12.2	-	-	2.6	-	-	5.1	-
87.0	70.0	0.0	-	3.6	-	-	0.0	-	-	0.0	-
87.0	80.0	0.0	-	0.0	-	-	5.4	-	-	0.0	-
90.0	28.0	-	-	12.9	-	-	-	21.8	-	-	100.8
90.0	30.0	-	-	-	-	-	-	44.0	-	-	-
90.0	32.0	-	-	15.7	-	-	-	-	-	-	0.0
90.0	37.0	-	-	46.6	-	-	-	-	-	-	0.0
90.0	45.0	-	-	9.0	-	-	-	-	-	-	2.8
90.0	50.0	-	-	-	-	-	-	18.8	-	-	-
90.0	53.0	-	-	298.4	-	-	-	-	-	-	0.0
90.0	60.0	-	-	15.5	-	-	-	0.0	-	-	2.8
90.0	65.0	-	-	5.9	-	-	-	-	-	2.8	-
90.0	70.0	-	-	3.0	-	-	-	0.0	-	0.0	-
93.0	28.0	20.2	-	31.3	-	-	5.1	-	-	10.8	-
93.0	30.0	12.9	-	17.5	-	-	2.3	-	-	5.3	-
93.0	35.0	2.8	-	80.5	-	-	5.8	-	-	2.6	-
93.0	40.0	5.6	-	0.0	-	-	5.1	-	-	0.0	-
93.0	45.0	8.9	-	0.0	-	-	0.0	-	-	0.0	-
93.0	50.0	27.1	-	0.0	-	-	0.0	-	-	0.0	-
93.0	55.0	3.0	-	2.9	-	-	2.6	-	-	0.0	-
93.0	60.0	11.8	-	7.9	-	-	23.4	-	-	0.0	-
93.0	70.0	0.0	-	6.0	-	-	0.0	-	-	0.0	-
93.0	80.0	2.7	-	0.0	-	-	0.0	-	-	2.9	-
97.0	30.0	54.9	-	11.0	-	-	0.0	-	-	2.0	-
97.0	32.0	48.1	-	0.0	-	-	-	-	-	13.9	-
97.0	35.0	2.8	-	51.0	-	-	5.4	-	-	3.0	-
97.0	40.0	0.0	-	2.9	-	-	0.0	-	-	0.0	-
97.0	45.0	0.0	-	12.7	-	-	0.0	-	-	0.0	-
97.0	50.0	8.7	-	3.1	-	-	0.0	-	-	2.8	-
97.0	55.0	0.0	-	6.1	-	-	0.0	-	-	0.0	-
97.0	65.0	0.0	-	0.0	-	-	6.2	-	-	0.0	-
97.0	70.0	0.0	-	0.0	-	-	31.9	-	-	0.0	-
100.0	30.0	-	-	184.6	-	-	10.4	-	-	-	22.6
100.0	35.0	10.9	-	8.6	-	-	0.0	-	-	-	0.0
100.0	40.0	0.0	-	9.5	-	-	6.7	-	-	-	0.0
100.0	45.0	0.0	-	9.1	-	-	0.0	-	-	-	0.0



TABLE 4. (cont.)

*Sebastes* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	50.0	0.0	-	28.4	-	-	0.0	-	-	-	0.0	-
100.0	55.0	3.0	-	0.0	-	-	0.0	-	-	-	0.0	-
103.0	30.0	236.9	-	209.3	-	-	0.0	-	-	4.8	-	-
103.0	35.0	49.0	-	29.8	-	-	0.0	-	-	36.1	-	-
103.0	40.0	14.9	-	8.4	-	-	2.3	-	-	5.5	-	-
103.0	70.0	26.8	-	0.0	-	-	0.0	-	-	0.0	-	-
103.0	80.0	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0	32.0	38.4	-	3.3	-	-	4.1	-	-	0.0	-	-
107.0	35.0	0.0	-	155.5	-	-	0.0	-	-	0.0	-	-
107.0	40.0	0.0	-	23.4	-	-	0.0	-	-	0.0	-	-
107.0	50.0	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
107.0	60.0	15.3	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0	65.0	64.9	-	0.0	-	-	0.0	-	-	0.0	-	-
110.0	32.0	-	-	15.0	-	-	0.0	-	-	0.0	4.6	-
110.0	33.0	6.1	-	-	-	-	-	-	-	-	-	-
110.0	35.0	0.0	-	25.8	-	-	0.0	-	-	-	8.1	-
110.0	40.0	0.0	-	10.4	-	-	0.0	-	-	-	0.0	-
110.0	45.0	0.0	-	2.7	-	-	0.0	-	-	-	0.0	-
110.0	50.0	0.0	-	3.0	-	-	0.0	-	-	-	0.0	-
110.0	65.0	0.0	-	4.9	-	-	0.0	-	-	-	0.0	-
110.0	70.0	0.0	-	2.7	-	-	0.0	-	-	-	0.0	-
113.0	30.0	2.4	-	15.6	-	-	0.0	-	-	0.0	-	-
113.0	35.0	3.0	-	6.1	-	-	0.0	-	-	0.0	-	-
113.0	40.0	0.0	-	12.3	-	-	0.0	-	-	0.0	-	-
113.0	45.0	5.2	-	6.0	-	-	0.0	-	-	0.0	-	-
113.0	50.0	2.7	-	3.0	-	-	0.0	-	-	0.0	-	-
113.0	55.0	5.5	-	0.0	-	-	0.0	-	-	0.0	-	-
115.0	35.0	5.1	-	-	0.0	-	0.0	-	-	0.0	0.0	-
117.0	26.0	6.4	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0	30.0	0.0	-	13.7	-	-	0.0	-	-	0.0	-	-
117.0	35.0	0.0	-	8.0	-	-	0.0	-	-	0.0	-	-
117.0	40.0	145.5	-	8.2	-	-	0.0	-	-	0.0	-	-
117.0	45.0	75.9	-	0.0	-	-	0.0	-	-	2.9	-	-
117.0	50.0	3.1	-	5.7	-	-	0.0	-	-	0.0	-	-
117.0	55.0	0.0	-	5.7	-	-	0.0	-	-	0.0	-	-
117.0	65.0	0.0	-	2.4	-	-	2.5	-	-	0.0	-	-
118.0	39.0	20.9	-	10.9	-	-	10.8	-	-	0.0	-	-
119.0	33.0	40.2	-	-	0.0	-	2.1	-	-	0.0	0.0	-
120.0	25.0	12.8	-	4.6	-	-	0.0	-	-	0.0	-	-
120.0	30.0	5.4	-	2.5	-	-	2.4	-	-	2.5	-	-
120.0	40.0	0.0	-	3.8	-	-	0.0	-	-	0.0	0.0	-
120.0	45.0	0.0	-	11.4	-	-	0.0	-	-	-	0.0	-
120.0	50.0	2.7	-	51.0	-	-	0.0	-	-	-	0.0	-
120.0	55.0	0.0	-	5.1	-	-	0.0	-	-	-	0.0	-
123.0	37.0	112.8	-	45.4	-	-	0.0	-	-	0.0	-	-
123.0	42.0	18.6	-	2.7	-	-	0.0	-	-	0.0	-	-

TABLE 4. (cont.)

*Sebastes* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	45.0	2.9	-	2.7	-	-	0.0	-	-	0.0	-	-
123.0	50.0	0.0	-	23.7	-	-	0.0	-	-	0.0	-	-
123.0	55.0	0.0	-	11.2	-	-	0.0	-	-	0.0	-	-
127.0	34.0	12.6	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0	40.0	0.0	-	5.2	-	-	2.5	-	-	0.0	-	-
127.0	45.0	0.0	-	6.2	-	-	7.7	-	-	0.0	-	-
127.0	50.0	0.0	-	3.0	-	-	15.1	-	-	0.0	-	-
127.0	55.0	0.0	-	3.0	-	-	4.8	-	-	0.0	-	-
127.0	60.0	0.0	-	0.0	-	-	4.9	-	-	0.0	-	-
130.0	30.0	0.0	-	2.5	-	-	0.0	-	-	-	0.0	-
133.0	30.0	29.3	-	0.0	-	-	-	-	-	0.0	-	-
133.0	35.0	12.0	-	5.4	-	-	-	-	-	0.0	-	-

*Sebastolobus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	80.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
90.0	70.0	-	-	0.0	-	-	-	2.7	-	0.0	-	-

*Prionotus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	25.0	0.0	-	0.0	-	-	2.1	-	-	0.0	-	-
127.0	34.0	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-
130.0	30.0	0.0	-	0.0	-	-	0.0	-	-	-	8.7	-
133.0	25.0	0.0	-	0.0	-	-	-	-	-	38.3	-	-
133.0	30.0	0.0	-	0.0	-	-	-	-	-	2.7	-	-
137.0	23.0	0.0	-	0.0	-	-	-	-	-	-	12.3	-
137.0	30.0	2.7	-	0.0	-	-	-	-	-	-	2.7	-
140.0	30.0	0.0	-	0.0	-	-	-	-	-	-	29.4	-

*Hypsoblennius* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	53.0	-	-	-	-	-	-	4.9	-	-	-	-
80.0	70.0	0.0	0.0	-	-	-	-	5.2	-	0.0	-	-
90.0	28.0	0.0	-	0.0	-	-	-	8.2	-	-	0.0	-
90.0	30.0	-	-	-	-	-	-	2.9	-	-	-	-
103.0	40.0	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-
113.0	30.0	2.4	-	0.0	-	-	0.0	-	-	0.0	-	-
118.0	39.0	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
120.0	50.0	0.0	-	2.5	-	-	0.0	-	-	-	0.0	-
123.0	37.0	0.0	-	0.0	-	-	2.2	-	-	0.0	-	-

TABLE 4. (cont.)

*Hypsoblennius* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
130.0 30.0	-	0.0	-	0.0	-	-	12.3	-	-	-	8.7	-
130.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-
137.0 23.0	-	3.0	-	0.0	-	-	-	-	-	-	0.0	-

## Clinidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 52.0	141.8	-	0.0	-	-	-	-	-	-	0.0	-	-
60.0 55.0	96.4	-	0.0	-	-	-	-	-	-	0.0	-	-
63.0 52.0	6.4	-	0.0	-	-	-	-	-	-	0.0	-	-
63.0 55.0	5.6	-	0.0	-	-	-	-	-	-	0.0	-	-
83.0 51.0	-	0.0	-	14.9	-	-	0.0	-	-	0.0	-	-
87.0 35.0	-	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
87.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
90.0 28.0	0.0	-	-	3.2	-	-	0.0	2.7	-	-	0.0	-
97.0 30.0	-	0.0	-	0.0	-	-	4.8	-	-	2.0	-	-
103.0 30.0	-	0.0	-	2.2	-	-	0.0	-	-	0.0	-	-
110.0 33.0	-	3.1	-	-	-	-	-	-	-	-	-	-
113.0 30.0	-	0.0	-	2.6	-	-	0.0	-	-	0.0	-	-
118.0 39.0	-	0.0	-	0.0	-	-	5.4	-	-	0.0	-	-
120.0 40.0	-	26.5	-	1.9	-	-	0.0	-	-	0.0	-	-
123.0 37.0	-	18.8	-	2.7	-	-	0.0	-	-	0.0	-	-
123.0 42.0	-	3.1	-	0.0	-	-	7.7	-	-	0.0	-	-

## Gobiidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 60.0	0.0	-	0.0	-	-	-	-	-	-	3.1	-	-
63.0 55.0	0.0	-	3.1	-	-	-	-	-	-	0.0	-	-
77.0 51.0	0.0	-	2.8	-	-	-	-	-	-	0.0	-	-
77.0 55.0	0.0	-	0.0	-	-	-	-	-	-	2.7	-	-
80.0 53.0	-	-	-	-	-	-	-	4.9	-	-	-	-
80.0 55.0	2.7	-	0.0	-	-	-	-	5.3	-	0.0	-	-
80.0 60.0	0.0	-	0.0	-	-	-	-	-	-	2.7	-	-
82.0 47.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
83.0 43.0	-	0.0	-	0.0	-	-	0.0	-	-	0.0	-	-
83.0 51.0	-	7.4	-	3.0	-	-	0.0	-	-	0.0	-	-
87.0 40.0	-	0.0	-	0.0	-	-	2.9	-	-	0.0	-	-
87.0 50.0	-	2.1	-	2.9	-	-	0.0	-	-	0.0	-	-
87.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	7.6	-	-
90.0 37.0	0.0	-	-	5.8	-	-	-	-	-	-	0.0	-
90.0 40.0	-	-	-	-	-	-	-	4.7	-	-	-	-
90.0 45.0	0.0	-	-	3.0	-	-	-	-	-	-	0.0	-

TABLE 4. (cont.)

## Gobiidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	53.0	0.0	-	2.5	-	-	-	-	-	-	0.0	-
93.0	30.0	0.0	-	2.9	-	-	0.0	-	-	8.0	-	-
93.0	60.0	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
93.0	80.0	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-
97.0	30.0	1.8	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0	35.0	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
100.0	30.0	-	-	2.8	-	-	0.0	-	-	-	0.0	-
100.0	70.0	0.0	-	0.0	-	-	0.0	-	-	-	2.7	-
103.0	30.0	0.0	-	2.2	-	-	3.5	-	-	0.0	-	-
103.0	35.0	0.0	-	0.0	-	-	2.4	-	-	13.9	-	-
103.0	40.0	0.0	-	0.0	-	-	2.3	-	-	2.7	-	-
107.0	32.0	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-
110.0	32.0	-	-	0.0	-	-	2.3	-	-	-	0.0	-
110.0	55.0	0.0	-	2.8	-	-	0.0	-	-	-	0.0	-
113.0	30.0	0.0	-	0.0	-	-	0.0	-	-	2.2	-	-
115.0	35.0	0.0	-	-	0.0	-	0.0	-	-	-	3.0	-
118.0	39.0	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-
120.0	40.0	2.0	-	0.0	-	-	0.0	-	-	0.0	-	-
130.0	30.0	0.0	-	0.0	-	-	2.5	-	-	-	0.0	-

*Icosteus aenigmaticus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	80.0	0.0	-	-	-	-	-	-	-	0.0	-	-

## Labridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
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133.0	40.0	-	-	0.0	-	-	-	-	-	3.0	-	-
140.0	45.0	0.0	-	0.0	-	-	-	-	-	-	2.8	-

*Halichoeres* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	35.0	-	-	0.0	-	-	0.0	-	-	2.8	-	-
117.0	50.0	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
120.0	30.0	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
120.0	45.0	0.0	-	0.0	-	-	0.0	-	-	-	2.6	-
123.0	37.0	0.0	-	0.0	-	-	0.0	-	-	6.6	-	-
123.0	42.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
123.0	80.0	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
127.0	50.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
127.0	60.0	0.0	-	0.0	-	-	4.9	-	-	0.0	-	-

TABLE 4. (cont.)

*Halichoeres* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0 30.0	-	0.0	-	0.0	-	-	0.0	-	-	-	5.8	-
130.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-
133.0 25.0	-	0.0	-	0.0	-	-	-	-	-	12.8	-	-

*Oxyjulis californica*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0 55.0	0.0	-	0.0	-	-	-	-	-	-	2.7	-	-
77.0 57.0	0.0	-	0.0	-	-	-	-	-	-	2.8	-	-
80.0 53.0	-	-	-	-	-	-	-	2.5	-	-	-	-
80.0 60.0	0.0	-	0.0	-	-	-	-	8.0	-	0.0	-	-
82.0 47.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
83.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
87.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	6.0	-	-
87.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
87.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
90.0 32.0	0.0	-	-	0.0	-	-	-	-	-	-	11.2	-
90.0 53.0	0.0	-	-	5.1	-	-	-	-	-	-	0.0	-
90.0 60.0	0.0	-	-	0.0	-	-	-	0.0	-	-	2.8	-
93.0 55.0	-	0.0	-	0.0	-	-	5.2	-	-	0.0	-	-
93.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-
97.0 32.0	-	0.0	-	3.2	-	-	-	-	-	0.0	-	-
97.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
97.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	8.6	-	-
110.0 65.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
117.0 35.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
117.0 40.0	-	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
123.0 42.0	-	0.0	-	0.0	-	-	18.1	-	-	0.0	-	-
130.0 35.0	-	0.0	-	0.0	-	-	2.9	-	-	-	0.0	-

*Semicossyphus pulcher*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0 51.0	0.0	-	0.0	-	-	-	-	-	-	3.0	-	-
80.0 60.0	0.0	-	0.0	-	-	-	-	0.0	-	7.7	-	-
90.0 65.0	0.0	-	-	0.0	-	-	-	-	-	2.8	-	-
100.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.7	-
117.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
117.0 40.0	-	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
123.0 37.0	-	0.0	-	0.0	-	-	0.0	-	-	4.4	-	-
127.0 40.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
127.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
140.0 45.0	-	2.5	-	0.0	-	-	-	-	-	-	0.0	-



TABLE 4. (cont.)

*Chromis punctipinnis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
82.0 47.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
90.0 30.0	-	-	-	-	-	-	-	55.7	-	-	-	-
90.0 40.0	-	-	-	-	-	-	-	7.1	-	-	-	-
93.0 28.0	-	0.0	-	0.0	-	-	0.0	-	-	5.4	-	-
100.0 30.0	0.0	-	-	0.0	-	-	0.0	-	-	-	3.2	-
100.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-
107.0 32.0	-	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-
107.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
113.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
113.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
113.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
113.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
117.0 26.0	-	0.0	-	0.0	-	-	0.0	-	-	6.1	-	-
117.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	8.0	-	-
117.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-
117.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
118.0 39.0	-	0.0	-	0.0	-	-	0.0	-	-	20.1	-	-
123.0 37.0	-	0.0	-	0.0	-	-	0.0	-	-	4.4	-	-
123.0 42.0	-	0.0	-	0.0	-	-	121.3	-	-	0.0	-	-
130.0 35.0	-	0.0	-	0.0	-	-	2.9	-	-	-	0.0	-

*Howella brodiei*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 140.0	0.0	-	0.0	-	-	-	-	-	-	2.6	-	-
60.0 180.0	0.0	-	0.0	-	-	-	-	-	-	2.8	-	-
90.0 120.0	0.0	-	-	0.0	-	-	-	4.8	-	0.0	-	-
90.0 130.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 140.0	0.0	-	-	0.0	-	-	-	2.5	-	0.0	-	-
90.0 160.0	0.0	-	-	0.0	-	-	-	5.0	-	0.0	-	-
93.0 100.0	-	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-

*Brama spp.*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 150.0	-	-	-	-	-	-	-	2.7	-	-	-	-
80.0 160.0	-	-	-	-	-	-	-	2.8	-	-	-	-
90.0 120.0	0.0	-	-	0.0	-	-	-	4.8	-	2.9	-	-
90.0 130.0	-	-	-	-	-	-	-	2.5	-	-	-	-
90.0 160.0	3.0	-	-	2.9	-	-	-	0.0	-	0.0	-	-
90.0 200.0	0.0	-	-	5.5	-	-	-	0.0	-	0.0	-	-
93.0 100.0	-	0.0	-	0.0	-	-	0.0	-	-	5.7	-	-
97.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-

TABLE 4. (cont.)

*Brama* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0 100.0	-	0.0	-	0.0	-	-	-	-	-	-	2.5	-
100.0 120.0	-	0.0	-	0.0	-	-	-	-	-	-	2.8	-
100.0 140.0	-	-	-	2.8	-	-	-	-	-	-	-	-
107.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
107.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
113.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
127.0 80.0	-	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-

## Carangidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0 25.0	-	0.0	-	0.0	-	-	-	-	-	2.5	-	-

*Seriola lalandi*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0 80.0	-	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-
118.0 39.0	-	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-
123.0 42.0	-	0.0	-	0.0	-	-	36.1	-	-	0.0	-	-
123.0 50.0	-	0.0	-	0.0	-	-	50.0	-	-	0.0	-	-
123.0 55.0	-	0.0	-	0.0	-	-	25.6	-	-	0.0	-	-
127.0 45.0	-	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
127.0 50.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
127.0 60.0	-	0.0	-	0.0	-	-	7.4	-	-	0.0	-	-
127.0 65.0	-	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
127.0 70.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
130.0 35.0	-	0.0	-	0.0	-	-	2.9	-	-	0.0	0.0	-
137.0 70.0	-	0.0	-	7.8	-	-	-	-	-	-	0.0	-

*Trachurus symmetricus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 160.0	0.0	-	14.5	-	-	-	-	-	-	0.0	-	-
70.0 80.0	0.0	-	28.8	-	-	-	-	-	-	0.0	-	-
70.0 100.0	0.0	-	3.0	-	-	-	-	-	-	-	-	-
70.0 120.0	0.0	-	68.0	-	-	-	-	-	-	-	-	-
80.0 53.0	-	-	-	-	-	-	-	2.5	-	-	-	-
80.0 120.0	0.0	-	28.3	-	-	-	-	0.0	-	0.0	-	-
83.0 43.0	-	0.0	-	2.8	-	-	0.0	0.0	-	0.0	-	-
83.0 70.0	-	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
83.0 80.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
83.0 90.0	-	0.0	-	8.9	-	-	0.0	-	-	0.0	-	-
87.0 70.0	-	0.0	-	0.0	-	-	3.0	-	-	0.0	-	-

TABLE 4. (cont.)

*Trachurus symmetricus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	90.0	0.0	-	11.9	-	-	0.0	-	-	0.0	-	-
90.0	40.0	-	-	-	-	-	-	28.3	-	-	-	-
90.0	70.0	0.0	0.0	0.0	-	-	-	10.7	-	0.0	-	-
90.0	80.0	0.0	43.5	71.5	-	-	-	16.1	-	0.0	-	-
90.0	90.0	0.0	19.9	50.0	-	-	-	0.0	-	0.0	-	-
90.0	100.0	0.0	50.0	15.7	-	-	-	0.0	-	0.0	-	-
90.0	120.0	0.0	15.7	0.0	-	-	-	0.0	-	0.0	-	-
90.0	140.0	0.0	0.0	0.0	-	-	2.3	0.0	-	0.0	-	-
93.0	30.0	0.0	0.0	0.0	-	-	5.1	-	-	3.0	-	-
93.0	40.0	0.0	0.0	0.0	-	-	2.7	-	-	2.6	-	-
93.0	45.0	0.0	0.0	0.0	-	-	10.2	-	-	2.7	-	-
93.0	50.0	0.0	0.0	0.0	-	-	0.0	-	-	2.6	-	-
93.0	55.0	0.0	0.0	0.0	-	-	7.8	-	-	2.8	-	-
93.0	60.0	0.0	18.5	14.3	-	-	21.9	-	-	0.0	-	-
93.0	65.0	9.1	32.8	3.0	-	-	0.0	-	-	0.0	-	-
93.0	70.0	5.9	62.7	0.0	-	-	5.1	-	-	0.0	-	-
93.0	80.0	0.0	254.8	0.0	-	-	10.1	-	-	0.0	-	-
93.0	90.0	2.7	0.0	0.0	-	-	9.7	-	-	0.0	-	-
93.0	100.0	0.0	0.0	6.2	-	-	3.0	-	-	0.0	-	-
97.0	30.0	0.0	0.0	12.9	-	-	2.7	-	-	2.8	-	-
97.0	45.0	0.0	0.0	30.6	-	-	14.1	-	-	0.0	-	-
97.0	50.0	0.0	3.2	511.9	-	-	2.8	-	-	0.0	-	-
97.0	55.0	3.2	0.0	406.4	-	-	30.9	-	-	0.0	-	-
97.0	60.0	0.0	0.0	91.5	-	-	0.0	-	-	0.0	-	-
97.0	65.0	0.0	0.0	0.0	-	-	2.7	-	-	0.0	-	-
97.0	70.0	3.0	0.0	0.0	-	-	3.2	-	-	0.0	-	-
97.0	80.0	0.0	0.0	0.0	-	-	5.2	-	-	0.0	-	-
97.0	90.0	0.0	0.0	0.0	-	-	2.8	-	-	0.0	-	-
100.0	30.0	0.0	0.0	0.0	-	-	16.8	-	-	0.0	-	-
100.0	35.0	0.0	0.0	0.0	-	-	0.0	-	-	0.0	-	-
100.0	40.0	0.0	0.0	0.0	-	-	0.0	-	-	0.0	-	-
100.0	45.0	0.0	3.0	0.0	-	-	0.0	-	-	0.0	-	-
100.0	50.0	4.9	0.0	0.0	-	-	0.0	-	-	0.0	-	-
100.0	55.0	32.5	2.8	11.1	-	-	9.4	-	-	0.0	-	-
100.0	60.0	0.0	11.1	8.6	-	-	12.0	-	-	0.0	-	-
100.0	65.0	15.3	0.0	69.1	-	-	0.0	-	-	0.0	-	-
100.0	70.0	0.0	0.0	376.1	-	-	11.8	-	-	0.0	-	-
100.0	80.0	0.0	0.0	143.3	-	-	28.2	-	-	0.0	-	-
100.0	90.0	0.0	0.0	70.7	-	-	14.4	-	-	0.0	-	-
100.0	100.0	0.0	0.0	6.8	-	-	-	-	-	0.0	-	-
100.0	120.0	0.0	0.0	0.0	-	-	-	-	-	0.0	-	-
103.0	30.0	0.0	0.0	0.0	-	-	1.8	-	-	0.0	-	-
103.0	35.0	0.0	0.0	17.9	-	-	4.8	-	-	0.0	-	-
103.0	40.0	0.0	0.0	47.6	-	-	2.3	-	-	0.0	-	-
103.0	45.0	12.4	0.0	6.1	-	-	2.6	-	-	0.0	-	-
103.0	50.0	3.0	0.0	6.0	-	-	0.0	-	-	0.0	-	-

TABLE 4. (cont.)

*Trachurus symmetricus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	55.0	0.0	-	3.0	-	-	2.8	-	-	0.0	-	-
103.0	60.0	0.0	-	0.0	-	-	15.9	-	-	0.0	-	-
103.0	65.0	0.0	-	2.9	-	-	8.2	-	-	0.0	-	-
103.0	70.0	86.4	-	0.0	-	-	0.0	-	-	0.0	-	-
103.0	80.0	50.8	-	2.5	-	-	0.0	-	-	0.0	-	-
103.0	90.0	0.0	-	-	-	-	5.9	-	-	0.0	-	-
107.0	32.0	0.0	-	3.3	-	-	0.0	-	-	0.0	-	-
107.0	35.0	7.9	-	208.4	-	-	0.0	-	-	0.0	-	-
107.0	40.0	0.0	-	32.1	-	-	108.9	-	-	0.0	-	-
107.0	45.0	0.0	-	5.7	-	-	30.6	-	-	0.0	-	-
107.0	50.0	0.0	-	14.6	-	-	0.0	-	-	0.0	-	-
107.0	60.0	64.0	-	2.7	-	-	0.0	-	-	0.0	-	-
107.0	65.0	35.4	-	0.0	-	-	24.7	-	-	0.0	-	-
107.0	70.0	0.0	-	5.4	-	-	85.2	-	-	0.0	-	-
107.0	80.0	6.1	-	2.7	-	-	9.5	-	-	0.0	-	-
107.0	90.0	0.0	-	-	-	-	3.0	-	-	0.0	-	-
110.0	32.0	-	-	21.4	-	-	0.0	-	-	-	0.0	-
110.0	35.0	0.0	-	60.3	-	-	0.0	-	-	-	0.0	-
110.0	45.0	0.0	-	5.5	-	-	12.4	-	-	-	0.0	-
110.0	50.0	2.8	-	18.1	-	-	8.9	-	-	-	0.0	-
110.0	55.0	0.0	-	5.6	-	-	0.0	-	-	-	0.0	-
110.0	60.0	5.5	-	5.1	-	-	0.0	-	-	-	0.0	-
110.0	65.0	8.1	-	17.3	-	-	0.0	-	-	-	0.0	-
110.0	70.0	10.6	-	88.4	-	-	21.9	-	-	-	0.0	-
110.0	80.0	3.0	-	29.8	-	-	0.0	-	-	-	0.0	-
110.0	90.0	2.5	-	38.0	-	-	0.0	-	-	-	0.0	-
110.0	100.0	0.0	-	13.7	-	-	-	-	-	-	0.0	-
110.0	120.0	0.0	-	2.3	-	-	-	-	-	-	0.0	-
113.0	35.0	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-
113.0	40.0	0.0	-	18.5	-	-	2.7	-	-	0.0	-	-
113.0	45.0	0.0	-	235.4	-	-	2.5	-	-	0.0	-	-
113.0	50.0	0.0	-	33.5	-	-	0.0	-	-	0.0	-	-
113.0	55.0	5.5	-	9.0	-	-	2.3	-	-	0.0	-	-
113.0	60.0	8.3	-	8.6	-	-	0.0	-	-	0.0	-	-
113.0	65.0	37.2	-	18.0	-	-	4.4	-	-	0.0	-	-
113.0	70.0	8.3	-	227.9	-	-	12.6	-	-	0.0	-	-
113.0	80.0	81.6	-	14.3	-	-	2.9	-	-	0.0	-	-
113.0	90.0	73.0	-	248.5	-	-	0.0	-	-	0.0	-	-
117.0	55.0	0.0	-	42.5	-	-	0.0	-	-	0.0	-	-
117.0	60.0	6.0	-	53.0	-	-	0.0	-	-	0.0	-	-
117.0	65.0	26.4	-	4.9	-	-	0.0	-	-	0.0	-	-
117.0	70.0	9.4	-	82.9	-	-	47.5	-	-	0.0	-	-
117.0	80.0	17.8	-	6.8	-	-	2.7	-	-	0.0	-	-
117.0	90.0	12.5	-	20.2	-	-	4.8	-	-	0.0	-	-
120.0	45.0	0.0	-	0.0	-	-	5.3	-	-	-	0.0	-
120.0	50.0	0.0	-	0.0	-	-	21.4	-	-	-	0.0	-

TABLE 4. (cont.)

*Trachurus symmetricus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	55.0	0.0	-	0.0	-	-	16.0	-	-	-	0.0	-
120.0	60.0	5.2	-	2.5	-	-	7.3	-	-	-	0.0	-
120.0	65.0	12.3	-	2.6	-	-	5.1	-	-	-	0.0	-
120.0	70.0	5.4	-	5.5	-	-	0.0	-	-	-	0.0	-
120.0	80.0	7.5	-	5.3	-	-	0.0	-	-	-	0.0	-
120.0	90.0	2.7	-	0.0	-	-	0.0	-	-	-	0.0	-
120.0	100.0	14.7	-	13.8	-	-	-	-	-	-	0.0	-
120.0	120.0	0.0	-	2.8	-	-	-	-	-	-	0.0	-
123.0	37.0	0.0	-	0.0	-	-	4.3	-	-	0.0	-	-
123.0	42.0	0.0	-	0.0	-	-	69.7	-	-	0.0	-	-
123.0	45.0	0.0	-	0.0	-	-	5.0	-	-	0.0	-	-
123.0	50.0	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
123.0	60.0	0.0	-	2.9	-	-	4.8	-	-	0.0	-	-
123.0	65.0	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
127.0	40.0	0.0	-	5.2	-	-	0.0	-	-	0.0	-	-
127.0	45.0	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
127.0	50.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
127.0	80.0	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
130.0	30.0	2.7	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	35.0	0.0	-	0.0	-	-	2.9	-	-	-	0.0	-
130.0	45.0	0.0	-	24.3	-	-	0.0	-	-	-	0.0	-
130.0	55.0	2.9	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	100.0	0.0	-	5.6	-	-	-	-	-	-	0.0	-
133.0	25.0	0.0	-	18.5	-	-	-	-	-	0.0	-	-

*Coryphaena hippurus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	25.0	2.5	-	0.0	-	-	0.0	-	-	0.0	-	-
120.0	45.0	0.0	-	2.9	-	-	5.3	-	-	-	0.0	-
120.0	50.0	2.7	-	0.0	-	-	0.0	-	-	-	0.0	-
123.0	37.0	4.7	-	0.0	-	-	0.0	-	-	0.0	-	-
130.0	90.0	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-
140.0	30.0	0.0	-	0.0	-	-	-	-	-	-	5.3	-

## Gerreidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	30.0	0.0	-	0.0	-	-	0.0	-	-	-	-	-
140.0	30.0	0.0	-	0.0	-	-	-	-	-	7.2	-	-
											2.7	-



TABLE 4. (cont.)

## Haemulidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0 40.0	-	0.0	-	0.0	-	-	16.9	-	-	0.0	-	-

*Girella nigricans*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0 60.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-

*Medialuna californiensis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0 45.0	-	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
100.0 50.0	-	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-
100.0 60.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
100.0 65.0	-	0.0	-	0.0	-	-	7.0	-	-	-	0.0	-
103.0 45.0	-	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
103.0 50.0	-	0.0	-	0.0	-	-	5.7	-	-	0.0	-	-
107.0 40.0	-	0.0	-	0.0	-	-	4.8	-	-	0.0	-	-
107.0 70.0	-	0.0	-	0.0	-	-	5.7	-	-	0.0	-	-
110.0 55.0	-	0.0	-	0.0	-	-	2.5	-	-	-	0.0	-
120.0 45.0	-	0.0	-	0.0	-	-	5.3	-	-	-	0.0	-
123.0 42.0	-	0.0	-	0.0	-	-	10.3	-	-	0.0	-	-

*Caulolatilus princeps*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0 32.0	-	0.0	-	0.0	-	-	2.0	-	-	0.0	-	-
107.0 45.0	-	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
117.0 60.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-

## Sciaenidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 52.0	2.0	-	0.0	-	-	-	-	-	-	0.0	-	-
63.0 52.0	15.0	-	0.0	-	-	-	-	-	-	0.0	-	-
70.0 53.0	0.0	-	16.0	-	-	-	-	-	-	0.0	-	-
77.0 51.0	0.0	-	16.7	-	-	-	-	-	-	0.0	-	-
80.0 55.0	16.0	-	0.0	-	-	-	-	-	-	-	-	-
83.0 55.0	-	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
87.0 55.0	-	0.0	-	2.4	-	-	0.0	-	-	2.7	-	-
87.0 70.0	-	0.0	-	3.6	-	-	0.0	-	-	0.0	-	-
90.0 28.0	0.0	-	-	0.0	-	-	-	5.5	-	-	0.0	-
93.0 28.0	-	0.0	-	44.4	-	-	0.0	-	-	0.0	-	-

TABLE 4. (cont.)

## Sciaenidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0 30.0	-	201.8	-	6.6	-	-	21.8	-	-	16.1	-	-
97.0 32.0	-	65.1	-	0.0	-	-	-	-	-	0.0	-	-
100.0 30.0	0.0	-	-	0.0	-	-	15.5	-	-	-	0.0	-
103.0 30.0	-	8.4	-	0.0	-	-	1.8	-	-	0.0	-	-
107.0 32.0	-	21.9	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0 35.0	-	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
113.0 40.0	-	0.0	-	6.2	-	-	0.0	-	-	0.0	-	-
113.0 45.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
117.0 40.0	-	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
118.0 39.0	-	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
120.0 25.0	-	17.9	-	0.0	-	-	0.0	-	-	0.0	-	-
120.0 30.0	-	5.4	-	0.0	-	-	0.0	-	-	2.5	-	-
120.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
120.0 40.0	-	2.0	-	1.9	-	-	0.0	-	-	0.0	-	-
120.0 45.0	-	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-
123.0 37.0	-	0.0	-	0.0	-	-	0.0	-	-	4.4	-	-
123.0 42.0	-	0.0	-	0.0	-	-	15.5	-	-	0.0	-	-
123.0 50.0	-	2.8	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0 40.0	-	0.0	-	0.0	-	-	9.9	-	-	2.8	-	-
127.0 50.0	-	0.0	-	0.0	-	-	10.0	-	-	0.0	-	-
127.0 55.0	-	0.0	-	0.0	-	-	7.1	-	-	0.0	-	-
130.0 30.0	-	0.0	-	0.0	-	-	2.5	-	-	-	0.0	-
133.0 25.0	-	0.0	-	0.0	-	-	-	-	-	5.1	-	-
140.0 30.0	-	0.0	-	0.0	-	-	-	-	-	-	98.8	-

## Serranidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0 30.0	0.0	-	-	0.0	-	-	2.6	-	-	-	0.0	-
130.0 30.0	-	0.0	-	0.0	-	-	9.8	-	-	-	5.8	-
133.0 25.0	-	0.0	-	0.0	-	-	-	-	-	12.8	-	-
133.0 30.0	-	0.0	-	0.0	-	-	-	-	-	2.7	-	-
140.0 30.0	-	0.0	-	0.0	-	-	-	-	-	-	2.7	-

## Gempylidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 180.0	0.0	-	2.9	-	-	-	-	-	-	0.0	-	-
70.0 200.0	0.0	-	8.5	-	-	-	-	-	-	2.7	-	-
80.0 150.0	-	-	-	-	-	-	-	2.7	-	-	-	-
80.0 160.0	-	-	-	-	-	-	-	2.8	-	-	-	-
80.0 180.0	-	-	-	-	-	-	-	2.0	-	-	-	-
80.0 200.0	2.8	-	-	0.0	-	-	-	0.0	-	2.6	-	-
90.0 120.0	0.0	-	-	0.0	-	-	-	2.4	-	0.0	-	-

TABLE 4. (cont.)

## Gempylidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0 160.0	0.0	-	-	8.8	-	-	-	2.5	-	0.0	-	-
90.0 180.0	0.0	-	-	5.4	-	-	-	0.0	-	0.0	-	-
90.0 200.0	0.0	-	-	5.5	-	-	-	0.0	-	0.0	-	-
110.0 160.0	-	-	-	2.7	-	-	-	-	-	-	-	-

*Sarda chiliensis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0 45.0	-	0.0	-	0.0	-	-	3.0	-	-	0.0	-	-
127.0 34.0	-	0.0	-	0.0	-	-	4.6	-	-	0.0	-	-
130.0 35.0	-	0.0	-	0.0	-	-	64.2	-	-	-	0.0	-

*Scomber japonicus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0 28.0	0.0	-	-	3.2	-	-	-	0.0	-	-	0.0	-
90.0 37.0	0.0	-	-	2.9	-	-	-	-	-	-	0.0	-
97.0 30.0	-	0.0	-	0.0	-	-	12.1	-	-	0.0	-	-
103.0 30.0	-	0.0	-	56.7	-	-	0.0	-	-	0.0	-	-
107.0 35.0	-	0.0	-	71.5	-	-	0.0	-	-	0.0	-	-
107.0 60.0	-	0.0	-	0.0	-	-	29.6	-	-	0.0	-	-
110.0 32.0	-	-	-	0.0	-	-	2.3	-	-	-	0.0	-
110.0 35.0	-	0.0	-	5.7	-	-	0.0	-	-	-	0.0	-
113.0 45.0	-	0.0	-	35.8	-	-	5.0	-	-	0.0	-	-
113.0 50.0	-	0.0	-	6.1	-	-	0.0	-	-	0.0	-	-
117.0 40.0	-	0.0	-	0.0	-	-	17.1	-	-	0.0	-	-
117.0 50.0	-	3.1	-	0.0	-	-	0.0	-	-	0.0	-	-
118.0 39.0	-	0.0	-	0.0	-	-	97.6	-	-	0.0	-	-
119.0 33.0	-	0.0	-	-	0.0	-	86.9	-	-	-	0.0	-
120.0 25.0	-	0.0	-	0.0	-	-	42.0	-	-	0.0	-	-
120.0 30.0	-	0.0	-	0.0	-	-	12.0	-	-	0.0	-	-
120.0 35.0	-	0.0	-	0.0	-	-	129.8	-	-	0.0	-	-
120.0 40.0	-	0.0	-	7.7	-	-	5.6	-	-	0.0	-	-
120.0 45.0	-	0.0	-	0.0	-	-	121.0	-	-	-	0.0	-
120.0 50.0	-	0.0	-	2.5	-	-	21.4	-	-	-	0.0	-
120.0 100.0	-	0.0	-	2.8	-	-	-	-	-	-	0.0	-
123.0 37.0	-	0.0	-	0.0	-	-	10.8	-	-	0.0	-	-
123.0 42.0	-	0.0	-	0.0	-	-	544.4	-	-	0.0	-	-
127.0 34.0	-	0.0	-	0.0	-	-	18.2	-	-	0.0	-	-
127.0 50.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
127.0 55.0	-	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
130.0 35.0	-	0.0	-	0.0	-	-	38.0	-	-	-	0.0	-
137.0 23.0	-	60.0	-	0.0	-	-	-	-	-	-	0.0	-
137.0 30.0	-	5.4	-	0.0	-	-	-	-	-	-	0.0	-

TABLE 4. (cont.)

## Trichiuridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0 200.0	0.0	-	0.0	-	-	-	-	-	-	2.7	-	-
97.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
110.0 120.0	-	3.4	-	0.0	-	-	-	-	-	-	0.0	-
113.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
113.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
117.0 40.0	-	0.0	-	0.0	-	-	2.4	-	-	5.3	-	-
117.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	6.0	-	-
117.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	5.7	-	-
120.0 45.0	-	0.0	-	0.0	-	-	2.6	-	-	-	2.6	-
120.0 100.0	-	0.0	-	0.0	-	-	-	-	-	-	2.8	-
123.0 37.0	-	0.0	-	0.0	-	-	4.3	-	-	0.0	-	-
123.0 42.0	-	0.0	-	0.0	-	-	61.9	-	-	0.0	-	-
127.0 34.0	-	0.0	-	0.0	-	-	9.1	-	-	0.0	-	-
127.0 50.0	-	0.0	-	0.0	-	-	5.0	-	-	0.0	-	-
127.0 55.0	-	0.0	-	0.0	-	-	14.3	-	-	0.0	-	-
127.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	7.6	-	-
130.0 35.0	-	0.0	-	0.0	-	-	5.8	-	-	-	0.0	-
130.0 50.0	-	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
130.0 70.0	-	0.0	-	0.0	-	-	2.5	-	-	-	0.0	-
133.0 70.0	-	0.0	-	0.0	-	-	-	-	-	2.6	-	-
140.0 45.0	-	2.5	-	0.0	-	-	-	-	-	-	0.0	-

## Sphyaena argentea

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0 30.0	-	-	-	-	-	-	-	2.9	-	-	-	-
97.0 30.0	-	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
100.0 30.0	0.0	-	-	0.0	-	-	2.6	-	-	-	0.0	-
113.0 30.0	-	0.0	-	0.0	-	-	2.1	-	-	0.0	-	-
118.0 39.0	-	0.0	-	0.0	-	-	27.1	-	-	0.0	-	-
123.0 42.0	-	0.0	-	0.0	-	-	12.9	-	-	0.0	-	-

## Icichthys lockingtoni

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 60.0	0.0	-	11.6	-	-	-	-	-	-	18.4	-	-
60.0 70.0	-	-	11.3	-	-	-	-	-	-	8.3	-	-
63.0 52.0	0.0	-	0.0	-	-	-	-	-	-	2.8	-	-
63.0 55.0	0.0	-	9.2	-	-	-	-	-	-	2.9	-	-
63.0 60.0	0.0	-	0.0	-	-	-	-	-	-	5.5	-	-
70.0 70.0	6.0	-	0.0	-	-	-	-	-	-	2.8	-	-
70.0 90.0	11.8	-	0.0	-	-	-	-	-	-	0.0	-	-
73.0 53.0	0.0	-	3.3	-	-	-	-	-	-	0.0	-	-
80.0 60.0	0.0	-	0.0	-	-	-	-	0.0	-	3.8	-	-

TABLE 4. (cont.)

*Icichthys lockingtoni* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	70.0	-	0.0	-	-	-	-	0.0	-	0.0	-	-
80.0	80.0	-	4.3	-	-	-	-	0.0	-	0.0	-	-
80.0	90.0	-	2.8	-	-	-	-	0.0	-	0.0	-	-
83.0	65.0	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
83.0	70.0	5.4	-	0.0	-	-	0.0	-	-	0.0	-	-
83.0	80.0	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
87.0	60.0	12.0	-	0.0	-	-	35.2	-	-	0.0	-	-
87.0	65.0	18.5	-	0.0	-	-	2.6	-	-	0.0	-	-
87.0	90.0	0.0	-	0.0	-	-	3.0	-	-	0.0	-	-
90.0	28.0	-	-	0.0	-	-	-	0.0	-	-	2.5	-
90.0	32.0	-	-	0.0	-	-	-	-	-	-	11.2	-
90.0	90.0	-	-	0.0	-	-	-	0.0	-	0.0	-	-
93.0	40.0	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
93.0	70.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
93.0	90.0	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
93.0	100.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
97.0	32.0	0.0	-	3.2	-	-	-	-	-	0.0	-	-
97.0	35.0	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
97.0	50.0	0.0	-	6.2	-	-	0.0	-	-	0.0	-	-
97.0	70.0	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
100.0	40.0	2.8	-	0.0	-	-	0.0	-	-	0.0	0.0	-
100.0	55.0	3.0	-	0.0	-	-	0.0	-	-	-	0.0	-
110.0	40.0	0.0	-	0.0	-	-	2.7	-	-	-	0.0	-
113.0	50.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-

*Peprilus simillimus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	28.0	-	-	2.6	-	-	0.0	-	-	0.0	-	-
107.0	32.0	0.0	-	0.0	-	-	2.0	-	-	0.0	-	-
117.0	26.0	0.0	-	5.6	-	-	0.0	-	-	0.0	-	-
117.0	30.0	0.0	-	4.6	-	-	0.0	-	-	0.0	-	-
117.0	35.0	0.0	-	5.3	-	-	0.0	-	-	0.0	-	-
117.0	50.0	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
117.0	55.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
119.0	33.0	0.0	-	-	0.0	-	4.1	-	-	-	0.0	-
120.0	25.0	10.2	-	9.2	-	-	4.2	-	-	0.0	-	-
120.0	40.0	6.1	-	0.0	-	-	0.0	-	-	0.0	-	-
123.0	37.0	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
127.0	50.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
130.0	30.0	0.0	-	2.5	-	-	2.5	-	-	-	0.0	-
133.0	25.0	2.1	-	5.3	-	-	-	-	-	0.0	-	-
137.0	23.0	10.5	-	0.0	-	-	-	-	-	-	0.0	-



TABLE 4. (cont.)

<i>Tetragonurus cuvieri</i>											
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
60.0 90.0	-	-	0.0	-	-	-	-	-	-	17.6	-
60.0 140.0	0.0	-	0.0	-	-	-	-	-	-	2.6	-
60.0 160.0	0.0	-	0.0	-	-	-	-	-	-	2.9	-
70.0 200.0	0.0	-	2.8	-	-	-	-	-	-	0.0	-
80.0 100.0	0.0	-	-	-	-	-	-	0.0	-	2.8	-
80.0 110.0	-	-	-	-	-	-	-	2.9	-	-	-
80.0 130.0	-	-	-	-	-	-	-	2.5	-	-	-
80.0 140.0	-	-	-	-	-	-	-	5.0	-	-	-
80.0 180.0	-	-	-	-	-	-	-	2.0	-	-	-
83.0 90.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-
87.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-
87.0 90.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-
90.0 80.0	0.0	-	-	0.0	-	-	-	0.0	-	2.8	-
90.0 90.0	0.0	-	-	0.0	-	-	-	5.5	-	0.0	-
90.0 100.0	0.0	-	-	2.8	-	-	-	2.6	-	0.0	-
90.0 110.0	-	-	-	-	-	-	-	7.1	-	-	-
90.0 120.0	0.0	-	-	0.0	-	-	-	2.5	-	0.0	-
90.0 140.0	0.0	-	-	0.0	-	-	-	0.0	-	2.8	-
90.0 160.0	0.0	-	-	0.0	-	-	-	0.0	-	5.3	-
93.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	5.3	-
93.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	0.0	-
93.0 80.0	-	8.2	-	0.0	-	-	0.0	-	-	0.0	-
93.0 90.0	-	2.7	-	0.0	-	-	5.4	-	-	0.0	-
93.0 100.0	-	2.9	-	0.0	-	-	0.0	-	-	0.0	-
97.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	5.6	-
97.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	5.7	-
97.0 65.0	-	2.5	-	0.0	-	-	0.0	-	-	0.0	-
97.0 90.0	-	0.0	-	3.0	-	-	0.0	-	-	2.6	-
100.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.9
100.0 90.0	-	0.0	-	0.0	-	-	4.8	-	-	0.0	0.0
100.0 100.0	-	5.3	-	0.0	-	-	-	-	-	-	0.0
100.0 120.0	-	0.0	-	2.3	-	-	-	-	-	-	0.0
103.0 30.0	-	0.0	-	0.0	-	-	-	-	-	2.4	-
103.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	8.2	-
103.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	3.1	-
103.0 50.0	-	0.0	-	0.0	-	-	2.8	-	-	6.8	-
103.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	5.9	-
103.0 60.0	-	0.0	-	0.0	-	-	5.3	-	-	2.9	-
103.0 65.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-
103.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	10.8	-
103.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-
103.0 90.0	-	6.7	-	0.0	-	-	0.0	-	-	10.6	-
107.0 40.0	-	0.0	-	0.0	-	-	4.8	-	-	5.8	-
107.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-
107.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	7.4	-
107.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	8.6	-

TABLE 4. (cont.)

*Tetragonurus cuvieri* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
107.0 90.0	-	9.2	-	-	-	-	0.0	-	-	5.4	-	-
110.0 45.0	-	0.0	-	0.0	-	-	3.1	-	-	-	0.0	-
110.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.3	-
110.0 80.0	-	12.0	-	0.0	-	-	0.0	-	-	-	2.8	-
110.0 90.0	-	2.5	-	0.0	-	-	0.0	-	-	-	2.9	-
110.0 120.0	-	0.0	-	0.0	-	-	-	-	-	-	2.9	-
113.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	8.0	-	-
113.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	7.9	-	-
113.0 70.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
113.0 90.0	-	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
117.0 65.0	-	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0 90.0	-	0.0	-	0.0	-	-	2.4	-	-	3.0	-	-
120.0 90.0	-	0.0	-	0.0	-	-	-	-	-	-	2.6	-
120.0 100.0	-	0.0	-	0.0	-	-	-	-	-	-	2.8	-
123.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	-	-	-
127.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-

## Chiasmodontidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0 90.0	-	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
100.0 60.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
100.0 70.0	-	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
103.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
107.0 50.0	-	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
107.0 90.0	-	3.1	-	-	-	-	0.0	-	-	0.0	-	-
110.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-
110.0 90.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.9	-
113.0 60.0	-	0.0	-	2.8	-	-	0.0	-	-	2.7	-	-
113.0 80.0	-	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0 26.0	-	0.0	-	0.0	-	-	0.0	-	-	2.0	-	-
120.0 55.0	-	0.0	-	0.0	-	-	5.3	-	-	-	0.0	-
120.0 65.0	-	0.0	-	2.6	-	-	0.0	-	-	-	0.0	-
120.0 80.0	-	0.0	-	5.3	-	-	0.0	-	-	-	0.0	-
123.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	5.2	-	-
127.0 50.0	-	3.0	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
130.0 60.0	-	0.0	-	5.2	-	-	0.0	-	-	-	0.0	-
130.0 70.0	-	0.0	-	0.0	-	-	2.5	-	-	-	0.0	-
133.0 60.0	-	0.0	-	5.6	-	-	-	-	-	0.0	-	-
137.0 60.0	-	2.7	-	0.0	-	-	-	-	-	-	0.0	-

TABLE 4. (cont.)

<i>Citharichthys</i> spp.											
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
60.0	52.0	0.0	2.8	-	-	-	-	-	-	0.0	-
60.0	55.0	11.7	0.0	-	-	-	-	-	-	0.0	-
60.0	60.0	0.0	0.0	-	-	-	-	-	-	12.2	-
60.0	70.0	-	0.0	-	-	-	-	-	-	16.6	-
60.0	80.0	-	0.0	-	-	-	-	-	-	5.3	-
60.0	90.0	-	2.3	-	-	-	-	-	-	0.0	-
63.0	52.0	-	11.1	-	-	-	-	-	-	0.0	-
63.0	55.0	-	3.1	-	-	-	-	-	-	0.0	-
63.0	60.0	-	2.5	-	-	-	-	-	-	8.3	-
67.0	50.0	-	13.2	-	-	-	-	-	-	0.0	-
70.0	53.0	-	13.3	-	-	-	-	-	-	0.0	-
70.0	55.0	-	-	-	-	-	-	-	-	-	-
70.0	60.0	-	5.7	-	-	-	-	-	-	-	-
70.0	70.0	-	0.0	-	-	-	-	-	-	8.3	-
70.0	90.0	-	0.0	-	-	-	-	-	-	0.0	-
73.0	53.0	-	0.0	-	-	-	-	-	-	22.5	-
73.0	60.0	-	3.3	-	-	-	-	-	-	5.7	-
77.0	51.0	-	0.0	-	-	-	-	-	-	8.9	-
77.0	55.0	-	0.0	-	-	-	-	-	-	16.4	-
77.0	57.0	-	0.0	-	-	-	-	-	-	17.1	-
80.0	52.0	-	2.7	-	-	-	-	-	-	2.3	-
80.0	53.0	-	-	-	-	-	-	46.5	-	-	-
80.0	60.0	-	0.0	-	-	-	-	8.0	-	0.0	-
80.0	65.0	-	0.0	-	-	-	-	-	-	7.3	-
80.0	70.0	-	0.0	-	-	-	-	2.6	-	0.0	-
80.0	80.0	-	2.1	-	-	-	-	0.0	-	0.0	-
82.0	47.0	0.0	-	0.0	-	-	0.0	-	-	23.9	-
83.0	40.0	0.0	-	0.0	-	-	0.0	-	-	2.2	-
83.0	43.0	0.0	-	0.0	-	-	0.0	-	-	158.7	-
83.0	51.0	2.5	-	0.0	-	-	2.6	-	-	0.0	-
83.0	55.0	0.0	-	0.0	-	-	0.0	-	-	7.8	-
83.0	60.0	2.9	-	0.0	-	-	0.0	-	-	0.0	-
83.0	70.0	0.0	-	0.0	-	-	0.0	-	-	2.6	-
83.0	80.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-
87.0	40.0	2.8	-	3.1	-	-	2.9	-	-	0.0	-
87.0	45.0	0.0	-	0.0	-	-	0.0	-	-	6.0	-
87.0	50.0	0.0	-	0.0	-	-	0.0	-	-	7.7	-
87.0	55.0	0.0	-	0.0	-	-	0.0	-	-	21.8	-
87.0	65.0	0.0	-	0.0	-	-	0.0	-	-	7.6	-
87.0	70.0	0.0	-	0.0	-	-	0.0	-	-	2.5	-
90.0	28.0	-	-	9.7	-	-	-	8.2	-	-	5.0
90.0	30.0	-	-	-	-	-	-	8.8	-	-	11.2
90.0	32.0	11.5	-	0.0	-	-	-	-	-	-	8.3
90.0	60.0	0.0	-	0.0	-	-	-	0.0	-	-	-
90.0	65.0	0.0	-	0.0	-	-	-	-	-	11.1	-
93.0	28.0	2.9	-	7.8	-	-	0.0	-	-	0.0	-

TABLE 4. (cont.)

*Citharichthys* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	30.0	2.6	-	0.0	-	-	0.0	-	-	0.0	-	-
93.0	35.0	0.0	-	0.0	-	-	0.0	-	-	28.9	-	-
93.0	40.0	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
93.0	50.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
93.0	55.0	3.0	-	0.0	-	-	2.6	-	-	0.0	-	-
93.0	80.0	0.0	-	0.0	-	-	0.0	-	-	8.6	-	-
97.0	30.0	0.0	-	0.0	-	-	0.0	-	-	4.0	-	-
97.0	32.0	0.0	-	0.0	-	-	-	-	-	2.8	-	-
97.0	35.0	0.0	-	6.4	-	-	0.0	-	-	6.0	-	-
97.0	45.0	3.0	-	0.0	-	-	0.0	-	-	2.8	-	-
97.0	50.0	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
97.0	55.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
97.0	65.0	0.0	-	0.0	-	-	0.0	-	-	5.1	-	-
100.0	30.0	-	-	5.7	-	-	0.0	-	-	-	0.0	-
100.0	35.0	0.0	-	2.9	-	-	0.0	-	-	-	2.8	-
100.0	40.0	0.0	-	0.0	-	-	0.0	-	-	-	3.0	-
100.0	55.0	0.0	-	0.0	-	-	0.0	-	-	-	2.5	-
100.0	65.0	0.0	-	2.9	-	-	0.0	-	-	-	0.0	-
103.0	30.0	1.7	-	6.5	-	-	1.8	-	-	2.4	-	-
103.0	35.0	0.0	-	0.0	-	-	2.4	-	-	8.3	-	-
103.0	40.0	0.0	-	0.0	-	-	6.9	-	-	0.0	-	-
103.0	50.0	0.0	-	0.0	-	-	5.7	-	-	0.0	-	-
103.0	55.0	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
107.0	32.0	0.0	-	3.3	-	-	2.0	-	-	2.9	-	-
107.0	35.0	0.0	-	9.3	-	-	0.0	-	-	8.6	-	-
107.0	40.0	0.0	-	0.0	-	-	2.4	-	-	2.9	-	-
107.0	55.0	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
107.0	70.0	0.0	-	0.0	-	-	11.4	-	-	0.0	-	-
110.0	32.0	-	-	0.0	-	-	6.9	-	-	3.1	-	-
110.0	35.0	0.0	-	0.0	-	-	8.2	-	-	10.8	-	-
110.0	45.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
110.0	60.0	0.0	-	0.0	-	-	5.2	-	-	0.0	-	-
110.0	65.0	0.0	-	0.0	-	-	9.5	-	-	-	0.0	-
113.0	30.0	19.4	-	2.6	-	-	2.1	-	-	8.9	-	-
113.0	35.0	0.0	-	0.0	-	-	4.5	-	-	5.4	-	-
113.0	40.0	0.0	-	12.3	-	-	0.0	-	-	0.0	-	-
113.0	45.0	0.0	-	0.0	-	-	0.0	-	-	30.1	-	-
113.0	50.0	0.0	-	0.0	-	-	0.0	-	-	4.9	-	-
115.0	35.0	0.0	-	-	20.4	-	5.4	-	-	-	6.0	-
117.0	26.0	49.0	-	234.1	-	-	4.7	-	-	4.1	-	-
117.0	30.0	2.2	-	212.0	-	-	0.0	-	-	16.7	-	-
117.0	35.0	3.0	-	37.4	-	-	14.9	-	-	8.5	-	-
117.0	40.0	2.9	-	2.7	-	-	4.9	-	-	48.1	-	-
117.0	45.0	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-
117.0	50.0	0.0	-	0.0	-	-	0.0	-	-	6.0	-	-
117.0	55.0	0.0	-	0.0	-	-	0.0	-	-	11.3	-	-

TABLE 4. (cont.)

*Citharichthys* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	65.0	0.0	-	0.0	-	-	5.0	-	-	0.0	-	-
118.0	39.0	50.7	-	13.7	-	-	10.8	-	-	109.1	-	-
119.0	33.0	29.5	-	-	42.1	-	163.5	-	-	-	0.0	-
120.0	25.0	124.9	-	427.3	-	-	457.8	-	-	0.0	-	-
120.0	30.0	35.4	-	635.0	-	-	48.0	-	-	10.1	-	-
120.0	35.0	25.8	-	37.1	-	-	99.0	-	-	14.3	-	-
120.0	40.0	26.5	-	96.0	-	-	30.1	-	-	25.0	-	-
120.0	45.0	6.0	-	14.3	-	-	0.0	-	-	-	2.6	-
120.0	50.0	0.0	-	71.4	-	-	0.0	-	-	-	2.6	-
123.0	37.0	65.8	-	56.1	-	-	0.0	-	-	19.9	-	-
123.0	42.0	0.0	-	2.7	-	-	10.3	-	-	2.7	-	-
123.0	45.0	0.0	-	10.8	-	-	0.0	-	-	0.0	-	-
123.0	50.0	5.7	-	0.0	-	-	2.6	-	-	0.0	-	-
123.0	55.0	0.0	-	11.2	-	-	0.0	-	-	0.0	-	-
123.0	60.0	6.0	-	14.4	-	-	0.0	-	-	0.0	-	-
123.0	65.0	2.7	-	0.0	-	-	0.0	-	-	2.6	-	-
123.0	70.0	0.0	-	0.0	-	-	0.0	-	-	5.7	-	-
123.0	80.0	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
127.0	34.0	0.0	-	0.0	-	-	120.8	-	-	18.3	-	-
127.0	40.0	0.0	-	5.2	-	-	74.1	-	-	2.8	-	-
127.0	45.0	0.0	-	15.5	-	-	23.2	-	-	0.0	-	-
127.0	50.0	0.0	-	32.7	-	-	183.2	-	-	0.0	-	-
127.0	55.0	0.0	-	18.1	-	-	102.3	-	-	0.0	-	-
127.0	60.0	0.0	-	0.0	-	-	4.9	-	-	0.0	-	-
127.0	65.0	8.8	-	0.0	-	-	0.0	-	-	0.0	-	-
130.0	35.0	74.8	-	2.8	-	-	2.9	-	-	-	2.8	-
130.0	40.0	68.5	-	11.4	-	-	0.0	-	-	-	0.0	-
130.0	45.0	2.5	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	50.0	2.5	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	55.0	5.8	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	60.0	0.0	-	0.0	-	-	0.0	-	-	-	2.6	-
133.0	25.0	4.3	-	26.4	-	-	0.0	-	-	17.9	-	-
133.0	30.0	0.0	-	2.7	-	-	-	-	-	2.7	-	-
133.0	35.0	0.0	-	8.1	-	-	-	-	-	0.0	-	-
133.0	40.0	0.0	-	2.7	-	-	-	-	-	0.0	-	-
133.0	45.0	0.0	-	5.7	-	-	-	-	-	0.0	-	-
133.0	50.0	0.0	-	2.7	-	-	-	-	-	0.0	-	-
133.0	55.0	0.0	-	2.8	-	-	-	-	-	0.0	-	-
137.0	23.0	13.5	-	2.2	-	-	-	-	-	-	0.0	-
137.0	30.0	2.7	-	0.0	-	-	-	-	-	-	0.0	-
137.0	40.0	0.0	-	3.0	-	-	-	-	-	-	2.7	-
140.0	30.0	7.7	-	2.5	-	-	-	-	-	-	0.0	-
140.0	35.0	0.0	-	8.5	-	-	-	-	-	-	0.0	-
140.0	40.0	0.0	-	2.6	-	-	-	-	-	-	0.0	-

TABLE 4. (cont.)

*Citharichthys stigmaeus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	0.0	0.0	-	-	-	-	-	-	2.7	-	-
60.0	60.0	1.8	0.0	-	-	-	-	-	-	0.0	-	-
63.0	60.0	0.0	0.0	-	-	-	-	-	-	2.8	-	-
67.0	50.0	0.0	0.0	-	-	-	-	-	-	2.7	-	-
70.0	53.0	0.0	0.0	-	-	-	-	-	-	10.2	-	-
70.0	70.0	0.0	0.0	-	-	-	-	-	-	2.8	-	-
70.0	80.0	2.7	0.0	-	-	-	-	-	-	0.0	-	-
73.0	53.0	0.0	0.0	-	-	-	-	-	-	2.8	-	-
73.0	60.0	0.0	0.0	-	-	-	-	-	-	8.5	-	-
77.0	57.0	0.0	0.0	-	-	-	-	-	-	2.8	-	-
80.0	52.0	-	0.0	-	-	-	-	-	-	2.3	-	-
80.0	53.0	-	0.0	-	-	-	-	44.1	-	-	-	-
80.0	60.0	2.9	0.0	-	-	-	-	0.0	-	3.8	-	-
80.0	100.0	5.9	-	-	-	-	-	0.0	-	0.0	-	-
82.0	47.0	0.0	-	0.0	-	-	0.0	0.0	-	13.3	-	-
83.0	43.0	5.4	-	0.0	-	-	0.0	0.0	-	7.4	-	-
83.0	60.0	2.9	-	0.0	-	-	0.0	0.0	-	0.0	-	-
83.0	70.0	2.7	-	0.0	-	-	2.8	0.0	-	5.2	-	-
83.0	90.0	2.7	-	0.0	-	-	0.0	0.0	-	0.0	-	-
87.0	35.0	0.0	-	0.0	-	-	0.0	0.0	-	3.1	-	-
87.0	40.0	0.0	-	0.0	-	-	0.0	0.0	-	2.1	-	-
87.0	45.0	0.0	-	0.0	-	-	0.0	0.0	-	32.8	-	-
87.0	50.0	0.0	-	0.0	-	-	2.6	0.0	-	5.1	-	-
87.0	55.0	0.0	-	0.0	-	-	8.8	0.0	-	2.7	-	-
87.0	60.0	0.0	-	0.0	-	-	0.0	0.0	-	25.4	-	-
87.0	65.0	0.0	-	0.0	-	-	0.0	0.0	-	5.1	-	-
87.0	80.0	0.0	-	3.0	-	-	0.0	0.0	-	2.7	-	-
90.0	28.0	-	-	0.0	-	-	-	2.7	-	-	5.0	-
90.0	30.0	-	-	0.0	-	-	-	2.9	-	-	-	-
90.0	32.0	0.0	-	0.0	-	-	-	-	-	-	11.2	-
90.0	37.0	2.5	-	0.0	-	-	-	-	-	-	22.6	-
90.0	40.0	-	-	-	-	-	-	37.8	-	-	-	-
90.0	45.0	0.0	-	0.0	-	-	-	-	-	-	2.8	-
90.0	50.0	-	-	-	-	-	-	8.0	-	-	-	-
90.0	53.0	0.0	-	0.0	-	-	-	0.0	-	-	2.7	-
90.0	60.0	0.0	-	0.0	-	-	-	0.0	-	-	5.5	-
90.0	70.0	0.0	-	0.0	-	-	-	2.7	-	0.0	-	-
90.0	80.0	5.4	-	0.0	-	-	-	0.0	-	0.0	-	-
93.0	28.0	0.0	-	0.0	-	-	0.0	-	-	13.5	-	-
93.0	30.0	0.0	-	0.0	-	-	0.0	-	-	13.3	-	-
93.0	35.0	-	-	0.0	-	-	2.9	-	-	15.8	-	-
93.0	40.0	-	-	0.0	-	-	2.6	-	-	5.9	-	-
93.0	45.0	-	-	0.0	-	-	0.0	-	-	2.6	-	-
93.0	50.0	-	-	0.0	-	-	5.1	-	-	5.5	-	-
93.0	55.0	-	-	0.0	-	-	0.0	-	-	2.6	-	-
93.0	65.0	-	-	3.0	-	-	0.0	-	-	2.8	-	-



TABLE 4. (cont.)

*Citharichthys stigmaeus* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	70.0	0.0	-	0.0	-	-	5.4	-	-	0.0	-	-
93.0	80.0	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-
97.0	30.0	0.0	-	0.0	-	-	0.0	-	-	2.0	-	-
97.0	32.0	5.7	-	0.0	-	-	-	-	-	2.8	-	-
97.0	40.0	0.0	-	0.0	-	-	4.8	-	-	-	-	-
97.0	45.0	0.0	-	3.2	-	-	0.0	-	-	22.6	-	-
97.0	50.0	0.0	-	0.0	-	-	0.0	-	-	5.6	-	-
100.0	30.0	-	-	0.0	-	-	2.6	-	-	-	12.9	-
100.0	35.0	2.2	-	0.0	-	-	0.0	-	-	-	5.7	-
100.0	40.0	0.0	-	0.0	-	-	0.0	-	-	-	3.0	-
100.0	65.0	0.0	-	0.0	-	-	0.0	-	-	-	2.9	-
100.0	70.0	0.0	-	0.0	-	-	0.0	-	-	-	8.2	-
103.0	35.0	0.0	-	0.0	-	-	7.3	-	-	5.6	-	-
103.0	40.0	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-
103.0	45.0	0.0	-	0.0	-	-	0.0	-	-	6.2	-	-
103.0	60.0	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
107.0	32.0	0.0	-	0.0	-	-	2.0	-	-	0.0	-	-
107.0	35.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
107.0	40.0	0.0	-	0.0	-	-	0.0	-	-	8.6	-	-
107.0	45.0	0.0	-	0.0	-	-	0.0	-	-	5.6	-	-
107.0	65.0	0.0	-	0.0	-	-	9.9	-	-	0.0	-	-
107.0	70.0	0.0	-	0.0	-	-	5.7	-	-	0.0	-	-
110.0	32.0	-	-	0.0	-	-	0.0	-	-	-	1.5	-
110.0	45.0	0.0	-	0.0	-	-	0.0	-	-	-	2.7	-
110.0	65.0	0.0	-	0.0	-	-	4.8	-	-	-	0.0	-
113.0	40.0	0.0	-	6.2	-	-	0.0	-	-	0.0	-	-
117.0	40.0	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
118.0	39.0	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
123.0	42.0	0.0	-	5.4	-	-	0.0	-	-	0.0	-	-
123.0	45.0	0.0	-	5.4	-	-	0.0	-	-	0.0	-	-
127.0	34.0	0.0	-	0.0	-	-	2.3	-	-	0.0	-	-
127.0	50.0	0.0	-	5.9	-	-	0.0	-	-	0.0	-	-
133.0	45.0	0.0	-	2.7	-	-	-	-	-	0.0	-	-

*Hippoglossina stomata*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	51.0	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
83.0	55.0	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
117.0	26.0	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
119.0	33.0	0.0	-	-	0.0	-	4.1	-	-	-	2.6	-
120.0	25.0	0.0	-	0.0	-	-	6.3	-	-	0.0	-	-
120.0	40.0	0.0	-	0.0	-	-	1.9	-	-	1.9	-	-
123.0	37.0	0.0	-	0.0	-	-	2.2	-	-	0.0	-	-
127.0	50.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-

TABLE 4. (cont.)

*Hippoglossina stomata* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0	55.0	0.0	-	0.0	-	-	4.8	-	-	0.0	-	-
130.0	35.0	6.8	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	45.0	2.5	-	0.0	-	-	0.0	-	-	-	0.0	-
133.0	25.0	0.0	-	0.0	-	-	-	-	-	2.5	-	-
137.0	23.0	0.0	-	2.2	-	-	-	-	-	-	0.0	-

*Paralichthys californicus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	40.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
83.0	43.0	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
90.0	28.0	-	-	9.7	-	-	-	0.0	-	-	0.0	-
93.0	28.0	0.0	-	10.4	-	-	0.0	-	-	0.0	-	-
93.0	30.0	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
97.0	30.0	5.3	-	15.4	-	-	0.0	-	-	6.0	-	-
97.0	32.0	2.8	-	0.0	-	-	-	-	-	0.0	-	-
100.0	30.0	-	-	0.0	-	-	0.0	-	-	-	0.0	-
100.0	35.0	2.2	-	0.0	-	-	0.0	-	-	-	0.0	-
103.0	30.0	0.0	-	2.2	-	-	0.0	-	-	0.0	-	-
107.0	32.0	8.2	-	3.3	-	-	0.0	-	-	0.0	-	-
107.0	35.0	0.0	-	3.1	-	-	0.0	-	-	0.0	-	-
110.0	32.0	-	-	2.1	-	-	6.9	-	-	-	0.0	-
110.0	33.0	3.1	-	-	-	-	-	-	-	-	-	-
113.0	30.0	0.0	-	2.6	-	-	2.1	-	-	0.0	-	-
117.0	26.0	2.1	-	2.8	-	-	2.3	-	-	0.0	-	-
119.0	33.0	0.0	-	-	4.7	-	0.0	-	-	-	0.0	-
120.0	25.0	7.7	-	0.0	-	-	0.0	-	-	0.0	-	-
120.0	30.0	5.4	-	0.0	-	-	0.0	-	-	0.0	-	-
120.0	35.0	0.0	-	0.0	-	-	2.2	-	-	0.0	-	-
120.0	40.0	2.0	-	3.8	-	-	3.8	-	-	0.0	-	-
120.0	50.0	0.0	-	5.1	-	-	0.0	-	-	-	0.0	-
120.0	55.0	0.0	-	2.5	-	-	0.0	-	-	-	0.0	-
123.0	37.0	0.0	-	0.0	-	-	6.5	-	-	0.0	-	-
130.0	30.0	0.0	-	0.0	-	-	32.0	-	-	-	0.0	-
130.0	45.0	2.5	-	0.0	-	-	0.0	-	-	-	0.0	-
133.0	25.0	4.3	-	2.6	-	-	-	-	-	0.0	-	-

*Xystreureys liiolepis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	30.0	0.0	-	0.0	-	-	0.0	-	-	2.0	-	-
113.0	30.0	0.0	-	0.0	-	-	0.0	-	-	2.2	-	-
118.0	39.0	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
119.0	33.0	0.0	-	-	0.0	-	2.1	-	-	-	0.0	-

TABLE 4. (cont.)

*Xystreureys liolepis* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0 25.0	-	0.0	-	0.0	-	-	2.1	-	-	0.0	-	-
120.0 30.0	-	0.0	-	2.5	-	-	0.0	-	-	0.0	-	-
120.0 35.0	-	0.0	-	0.0	-	-	4.4	-	-	0.0	-	-
123.0 37.0	-	2.3	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0 50.0	-	0.0	-	0.0	-	-	7.5	-	-	0.0	-	-

*Lepidopsetta bilineata*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0 50.0	-	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-

*Lyopsetta exilis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 52.0	2.0	-	30.3	-	-	-	-	-	-	0.0	-	-
60.0 55.0	58.4	-	21.6	-	-	-	-	-	-	0.0	-	-
63.0 55.0	0.0	-	9.2	-	-	-	-	-	-	0.0	-	-
67.0 50.0	0.0	-	19.8	-	-	-	-	-	-	0.0	-	-
70.0 53.0	0.0	-	10.6	-	-	-	-	-	-	0.0	-	-
73.0 53.0	8.7	-	0.0	-	-	-	-	-	-	0.0	-	-
77.0 51.0	2.0	-	0.0	-	-	-	-	-	-	0.0	-	-
80.0 52.0	0.0	-	2.7	-	-	-	-	-	-	0.0	-	-
80.0 55.0	2.7	-	0.0	-	-	-	-	-	-	-	-	-
83.0 43.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
83.0 55.0	-	0.0	-	5.9	-	-	0.0	-	-	0.0	-	-
83.0 65.0	-	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
83.0 70.0	-	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
87.0 40.0	-	0.0	-	3.1	-	-	2.9	-	-	0.0	-	-
90.0 28.0	0.0	-	-	3.2	-	-	-	0.0	-	-	0.0	-
90.0 32.0	0.0	-	-	2.6	-	-	-	-	-	-	0.0	-
90.0 53.0	0.0	-	-	2.5	-	-	-	-	-	-	0.0	-
93.0 28.0	-	0.0	-	2.6	-	-	0.0	-	-	0.0	-	-
97.0 30.0	-	1.8	-	0.0	-	-	0.0	-	-	0.0	-	-
97.0 35.0	-	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
100.0 30.0	0.0	-	-	11.4	-	-	0.0	-	-	-	0.0	-
103.0 30.0	-	0.0	-	2.2	-	-	0.0	-	-	0.0	-	-
107.0 35.0	-	0.0	-	6.2	-	-	0.0	-	-	0.0	-	-
113.0 40.0	-	0.0	-	6.2	-	-	0.0	-	-	0.0	-	-
117.0 35.0	-	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
118.0 39.0	-	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
120.0 50.0	-	0.0	-	2.5	-	-	0.0	-	-	0.0	0.0	-
123.0 37.0	-	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-

TABLE 4. (cont.)

*Parophrys vetulus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	0.0	4.8	-	-	-	-	-	-	0.0	-	-
60.0	60.0	0.0	2.9	-	-	-	-	-	-	0.0	-	-
70.0	53.0	0.0	8.0	-	-	-	-	-	-	0.0	-	-
77.0	51.0	4.1	0.0	-	-	-	-	-	-	0.0	-	-
80.0	65.0	2.5	0.0	-	-	-	-	-	-	0.0	-	-
82.0	47.0	3.3	-	0.0	-	-	0.0	-	-	0.0	-	-
83.0	43.0	0.0	-	5.7	-	-	0.0	-	-	0.0	-	-
83.0	51.0	0.0	-	6.0	-	-	0.0	-	-	0.0	-	-
87.0	35.0	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
87.0	40.0	0.0	-	9.4	-	-	0.0	-	-	0.0	-	-
87.0	45.0	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
90.0	32.0	-	-	13.1	-	-	-	-	-	-	0.0	-
90.0	53.0	0.0	-	5.1	-	-	-	-	-	-	0.0	-
93.0	28.0	0.0	-	26.1	-	-	0.0	-	-	0.0	-	-
93.0	30.0	0.0	-	2.9	-	-	0.0	-	-	0.0	-	-
93.0	60.0	0.0	-	2.6	-	-	0.0	-	-	0.0	-	-
97.0	30.0	7.1	-	15.4	-	-	2.4	-	-	0.0	-	-
97.0	32.0	2.8	-	0.0	-	-	-	-	-	0.0	-	-
97.0	35.0	0.0	-	51.0	-	-	0.0	-	-	0.0	-	-
97.0	45.0	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
100.0	30.0	-	-	8.5	-	-	0.0	-	-	-	0.0	-
100.0	35.0	0.0	-	2.9	-	-	0.0	-	-	-	0.0	-
103.0	30.0	1.7	-	13.1	-	-	0.0	-	-	0.0	-	-
103.0	35.0	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0	35.0	0.0	-	31.1	-	-	0.0	-	-	0.0	-	-
113.0	30.0	0.0	-	5.2	-	-	0.0	-	-	0.0	-	-
113.0	40.0	0.0	-	6.2	-	-	0.0	-	-	0.0	-	-
117.0	26.0	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
120.0	30.0	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-

*Pleuronichthys* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	60.0	0.0	-	-	-	-	-	2.7	-	0.0	-	-
97.0	35.0	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
123.0	37.0	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-

*Pleuronichthys coenosus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	55.0	-	-	-	-	-	-	-	-	-	-	-
90.0	60.0	0.0	-	3.1	-	-	-	0.0	-	-	0.0	-

TABLE 4. (cont.)

*Pleuronichthys decurrens*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 60.0	0.0	-	0.0	-	-	-	-	0.0	-	7.7	-	-
87.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
90.0 32.0	0.0	-	-	2.6	-	-	-	-	-	-	0.0	-
103.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-

*Pleuronichthys ritteri*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0 25.0	-	0.0	-	2.3	-	-	0.0	-	-	2.2	-	-
120.0 40.0	-	0.0	-	0.0	-	-	1.9	-	-	0.0	-	-

*Pleuronichthys verticalis*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
82.0 47.0	-	0.0	-	6.0	-	-	0.0	-	-	0.0	-	-
83.0 40.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
83.0 43.0	-	0.0	-	2.8	-	-	0.0	-	-	0.0	-	-
87.0 70.0	-	0.0	-	3.6	-	-	0.0	-	-	0.0	-	-
90.0 28.0	0.0	-	-	0.0	-	-	-	5.5	-	-	0.0	-
90.0 32.0	0.0	-	-	2.6	-	-	-	-	-	-	0.0	-
93.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
97.0 30.0	-	3.5	-	8.8	-	-	2.4	-	-	4.0	-	-
97.0 32.0	-	2.8	-	0.0	-	-	-	-	-	0.0	-	-
97.0 35.0	-	0.0	-	3.2	-	-	0.0	-	-	0.0	-	-
100.0 30.0	0.0	-	-	0.0	-	-	5.2	-	-	-	0.0	-
103.0 30.0	-	0.0	-	4.4	-	-	1.8	-	-	0.0	-	-
107.0 32.0	-	0.0	-	0.0	-	-	2.0	-	-	0.0	-	-
107.0 35.0	-	0.0	-	6.2	-	-	0.0	-	-	0.0	-	-
110.0 33.0	-	3.1	-	-	-	-	-	-	-	-	-	-
113.0 30.0	-	2.4	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0 26.0	-	6.4	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0 30.0	-	0.0	-	2.3	-	-	0.0	-	-	0.0	-	-
117.0 35.0	-	0.0	-	0.0	-	-	5.0	-	-	0.0	-	-
118.0 39.0	-	0.0	-	0.0	-	-	0.0	-	-	2.9	-	-
119.0 33.0	-	0.0	-	-	0.0	-	2.1	-	-	-	0.0	-
120.0 25.0	-	5.1	-	13.9	-	-	10.5	-	-	0.0	-	-
120.0 30.0	-	2.7	-	5.1	-	-	2.4	-	-	2.5	-	-
120.0 35.0	-	2.6	-	0.0	-	-	8.8	-	-	6.5	-	-
120.0 40.0	-	2.0	-	3.8	-	-	3.8	-	-	0.0	-	-
120.0 45.0	-	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-
120.0 50.0	-	0.0	-	2.5	-	-	0.0	-	-	-	0.0	-
123.0 37.0	-	0.0	-	0.0	-	-	4.3	-	-	0.0	-	-
123.0 55.0	-	0.0	-	11.2	-	-	0.0	-	-	0.0	-	-
127.0 34.0	-	0.0	-	0.0	-	-	4.6	-	-	0.0	-	-

TABLE 4. (cont.)

*Pleuronichthys verticalis* (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0 40.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
127.0 50.0	-	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
127.0 55.0	-	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
133.0 25.0	-	0.0	-	5.3	-	-	-	-	-	0.0	-	-

*Psettichthys melanostictus*

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 52.0	9.9	-	0.0	-	-	-	-	-	-	0.0	-	-

*Symphurus* spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0 55.0	0.0	-	0.0	-	-	-	-	-	-	5.5	-	-
83.0 51.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
87.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	3.1	-	-
87.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
90.0 30.0	-	-	-	-	-	-	-	2.9	-	-	-	-
97.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
103.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
107.0 55.0	-	0.0	-	0.0	-	-	0.0	-	-	3.0	-	-
113.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	5.6	-	-
117.0 35.0	-	0.0	-	0.0	-	-	2.4	-	-	13.4	-	-
117.0 40.0	-	0.0	-	0.0	-	-	0.0	-	-	5.7	-	-
117.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	8.9	-	-
118.0 39.0	-	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
119.0 33.0	-	0.0	-	0.0	0.0	-	14.5	-	-	-	0.0	-
120.0 30.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
120.0 35.0	-	0.0	-	0.0	-	-	4.4	-	-	0.0	-	-
123.0 37.0	-	0.0	-	0.0	-	-	0.0	-	-	2.2	-	-
123.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
123.0 65.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
123.0 70.0	-	0.0	-	0.0	-	-	0.0	-	-	5.7	-	-
123.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	5.2	-	-
127.0 34.0	-	0.0	-	0.0	-	-	6.8	-	-	0.0	-	-
127.0 45.0	-	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
127.0 50.0	-	0.0	-	0.0	-	-	5.0	-	-	2.7	-	-
127.0 55.0	-	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
127.0 60.0	-	0.0	-	0.0	-	-	0.0	-	-	2.6	-	-
127.0 80.0	-	0.0	-	0.0	-	-	0.0	-	-	2.5	-	-
130.0 30.0	-	0.0	-	0.0	-	-	0.0	-	-	-	167.6	-
130.0 35.0	-	0.0	-	0.0	-	-	0.0	-	-	-	73.8	-
130.0 50.0	-	0.0	-	0.0	-	-	0.0	-	-	-	2.7	-



TABLE 4. (cont.)

*Symphurus* spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	70.0	0.0	-	0.0	-	-	0.0	-	-	-	2.8	-
133.0	25.0	0.0	-	0.0	-	-	-	-	-	107.1	-	-
133.0	30.0	0.0	-	0.0	-	-	-	-	-	16.3	-	-
133.0	35.0	0.0	-	0.0	-	-	-	-	-	17.6	-	-
133.0	40.0	0.0	-	0.0	-	-	-	-	-	18.2	-	-
137.0	23.0	0.0	-	0.0	-	-	-	-	-	-	3.1	-
137.0	45.0	0.0	-	0.0	-	-	-	-	-	-	5.5	-
140.0	30.0	0.0	-	0.0	-	-	-	-	-	-	5.3	-

## Disintegrated fish larva

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	-	0.0	-	-	-	-	-	-	0.0	-	-
60.0	60.0	-	0.0	-	-	-	-	-	-	0.0	-	-
60.0	160.0	-	2.9	-	-	-	-	-	-	5.7	-	-
63.0	52.0	-	0.0	-	-	-	-	-	-	0.0	-	-
63.0	55.0	-	0.0	-	-	-	-	-	-	2.9	-	-
63.0	60.0	-	0.0	-	-	-	-	-	-	0.0	-	-
70.0	53.0	-	0.0	-	-	-	-	-	-	0.0	-	-
70.0	55.0	-	-	-	-	-	-	-	-	-	-	-
70.0	70.0	-	2.4	-	-	-	-	-	-	0.0	-	-
73.0	53.0	-	0.0	-	-	-	-	-	-	0.0	-	-
73.0	60.0	-	11.0	-	-	-	-	-	-	0.0	-	-
77.0	51.0	-	0.0	-	-	-	-	-	-	0.0	-	-
77.0	55.0	-	5.4	-	-	-	-	-	-	0.0	-	-
80.0	52.0	-	16.0	-	-	-	-	-	-	0.0	-	-
80.0	53.0	-	-	-	-	-	-	2.5	-	-	-	-
80.0	65.0	-	0.0	-	-	-	-	2.6	-	0.0	-	-
80.0	70.0	-	0.0	-	-	-	-	0.0	-	0.0	-	-
80.0	80.0	-	4.3	-	-	-	-	3.0	-	0.0	-	-
80.0	90.0	-	0.0	-	-	-	-	2.9	-	0.0	-	-
80.0	110.0	-	-	-	-	-	-	5.0	-	-	-	-
80.0	140.0	-	-	-	-	-	-	2.7	-	-	-	-
80.0	150.0	-	-	-	-	-	-	0.0	-	0.0	-	-
80.0	200.0	-	-	0.0	-	-	0.0	0.0	-	0.0	-	-
83.0	40.0	0.6	-	0.0	-	-	0.0	-	-	0.0	-	-
83.0	55.0	2.7	-	0.0	-	-	0.0	-	-	0.0	-	-
83.0	65.0	2.6	-	0.0	-	-	2.8	-	-	0.0	-	-
83.0	80.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
87.0	35.0	0.0	-	6.4	-	-	0.0	-	-	0.0	-	-
87.0	40.0	0.0	-	0.0	-	-	5.8	-	-	0.0	-	-
87.0	45.0	0.0	-	0.0	-	-	6.3	-	-	0.0	-	-
87.0	50.0	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
87.0	60.0	6.0	-	3.1	-	-	0.0	-	-	0.0	-	-
90.0	28.0	-	-	3.2	-	-	-	0.0	-	-	0.0	-

Disintegrated fish larva (cont.)

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TABLE 4. (cont.)

## Disintegrated fish larva (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	45.0	0.0	-	0.0	-	-	13.9	-	-	0.0	-	-
107.0	50.0	0.0	-	0.0	-	-	2.8	-	-	0.0	-	-
107.0	55.0	2.4	-	0.0	-	-	0.0	-	-	0.0	-	-
107.0	60.0	3.0	-	0.0	-	-	0.0	-	-	2.8	-	-
107.0	70.0	0.0	-	0.0	-	-	5.7	-	-	0.0	-	-
107.0	80.0	0.0	-	5.5	-	-	0.0	-	-	2.8	-	-
107.0	90.0	0.0	-	-	-	-	5.9	-	-	0.0	-	-
110.0	32.0	-	-	0.0	-	-	0.0	-	-	1.5	-	-
110.0	50.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
110.0	55.0	0.0	-	0.0	-	-	0.0	-	-	4.7	-	-
110.0	70.0	0.0	-	2.7	-	-	0.0	-	-	0.0	-	-
110.0	80.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
110.0	90.0	2.5	-	0.0	-	-	0.0	-	-	0.0	-	-
110.0	160.0	-	-	2.7	-	-	-	-	-	-	-	-
113.0	30.0	2.4	-	0.0	-	-	2.1	-	-	0.0	-	-
113.0	40.0	0.0	-	12.3	-	-	5.4	-	-	5.6	-	-
113.0	55.0	0.0	-	0.0	-	-	2.3	-	-	2.7	-	-
113.0	60.0	0.0	-	0.0	-	-	4.6	-	-	0.0	-	-
113.0	65.0	0.0	-	0.0	-	-	0.0	-	-	5.2	-	-
113.0	70.0	0.0	-	8.9	-	-	5.0	-	-	0.0	-	-
113.0	80.0	0.0	-	2.8	-	-	0.0	-	-	5.6	-	-
113.0	90.0	2.9	-	2.9	-	-	0.0	-	-	0.0	-	-
115.0	35.0	7.7	-	-	7.7	-	0.0	-	-	-	0.0	-
117.0	26.0	4.3	-	11.3	-	-	0.0	-	-	0.0	-	-
117.0	35.0	0.0	-	5.3	-	-	0.0	-	-	0.0	-	-
117.0	45.0	2.9	-	5.7	-	-	2.5	-	-	0.0	-	-
117.0	70.0	3.1	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0	90.0	2.1	-	0.0	-	-	4.8	-	-	3.0	-	-
118.0	39.0	6.0	-	0.0	-	-	0.0	-	-	2.9	-	-
119.0	33.0	0.0	-	-	0.0	-	16.6	-	-	-	0.0	-
120.0	25.0	17.9	-	2.3	-	-	0.0	-	-	0.0	-	-
120.0	30.0	0.0	-	0.0	-	-	21.6	-	-	2.5	-	-
120.0	35.0	0.0	-	0.0	-	-	19.8	-	-	0.0	-	-
120.0	40.0	0.0	-	0.0	-	-	16.9	-	-	0.0	-	-
120.0	45.0	0.0	-	2.9	-	-	10.5	-	-	-	2.6	-
120.0	50.0	0.0	-	2.5	-	-	0.0	-	-	-	0.0	-
120.0	55.0	0.0	-	0.0	-	-	21.4	-	-	0.0	-	-
120.0	60.0	0.0	-	0.0	-	-	31.5	-	-	0.0	-	-
120.0	65.0	0.0	-	0.0	-	-	22.9	-	-	0.0	-	-
120.0	70.0	0.0	-	0.0	-	-	7.4	-	-	0.0	-	-
120.0	90.0	0.0	-	0.0	-	-	28.7	-	-	0.0	-	-
120.0	100.0	2.9	-	0.0	-	-	-	-	-	-	0.0	-
120.0	120.0	2.6	-	2.8	-	-	-	-	-	-	0.0	-
123.0	37.0	2.3	-	13.4	-	-	30.2	-	-	0.0	-	-
123.0	42.0	0.0	-	0.0	-	-	23.2	-	-	0.0	-	-
123.0	45.0	14.4	-	0.0	-	-	0.0	-	-	0.0	-	-

TABLE 4. (cont.)

## Disintegrated fish larva (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	50.0	-	-	0.0	-	-	5.3	-	-	0.0	-	-
123.0	60.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
123.0	65.0	-	-	0.0	-	-	4.6	-	-	0.0	-	-
123.0	70.0	-	-	0.0	-	-	5.0	-	-	0.0	-	-
123.0	80.0	-	-	0.0	-	-	7.8	-	-	0.0	-	-
127.0	34.0	-	-	0.0	-	-	6.8	-	-	2.6	-	-
127.0	45.0	-	-	0.0	-	-	7.7	-	-	0.0	-	-
127.0	50.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
127.0	55.0	-	-	3.0	-	-	2.4	-	-	0.0	-	-
127.0	60.0	-	-	0.0	-	-	32.0	-	-	0.0	-	-
127.0	65.0	-	-	0.0	-	-	7.3	-	-	2.7	-	-
127.0	70.0	-	-	0.0	-	-	5.1	-	-	0.0	-	-
130.0	30.0	-	-	0.0	-	-	2.5	-	-	-	0.0	-
130.0	35.0	-	-	0.0	-	-	2.9	-	-	-	0.0	-
130.0	40.0	-	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	45.0	-	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	50.0	-	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	70.0	-	-	0.0	-	-	10.2	-	-	-	0.0	-
130.0	80.0	-	-	0.0	-	-	5.2	-	-	-	0.0	-
130.0	90.0	-	-	0.0	-	-	0.0	-	-	-	0.0	-
130.0	120.0	-	-	0.0	-	-	-	-	-	-	-	-
133.0	25.0	-	-	2.6	-	-	-	-	-	0.0	-	-
133.0	35.0	-	-	0.0	-	-	-	-	-	0.0	-	-
133.0	50.0	-	-	2.9	-	-	-	-	-	0.0	-	-
133.0	55.0	-	-	2.7	-	-	-	-	-	0.0	-	-
133.0	60.0	-	-	2.8	-	-	-	-	-	0.0	-	-
137.0	30.0	-	-	0.0	-	-	-	-	-	-	0.0	-
137.0	35.0	-	-	2.9	-	-	-	-	-	-	0.0	-
137.0	40.0	-	-	0.0	-	-	-	-	-	-	0.0	-
137.0	50.0	-	-	5.6	-	-	-	-	-	-	0.0	-
137.0	70.0	-	-	2.9	-	-	-	-	-	-	0.0	-
137.0	80.0	-	-	0.0	-	-	-	-	-	-	2.8	-
140.0	50.0	-	-	2.6	-	-	-	-	-	-	0.0	-

## Unidentified fish larva

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	52.0	-	2.8	-	-	-	-	-	-	0.0	-	-
60.0	55.0	-	0.0	-	-	-	-	-	-	2.7	-	-
60.0	60.0	-	2.9	-	-	-	-	-	-	0.0	-	-
60.0	140.0	-	0.0	-	-	-	-	-	-	5.2	-	-
60.0	160.0	-	0.0	-	-	-	-	-	-	2.9	-	-
60.0	200.0	-	0.0	-	-	-	-	-	-	0.0	-	-
63.0	52.0	-	2.2	-	-	-	-	-	-	5.5	-	-
67.0	50.0	-	4.4	-	-	-	-	-	-	0.0	-	-

TABLE 4. (cont.)

## Unidentified fish larva (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	52.0	0.0	0.0	-	-	-	-	-	-	4.6	-	-
80.0	60.0	0.0	0.0	-	-	-	-	2.7	-	0.0	-	-
80.0	130.0	-	-	-	-	-	-	12.8	-	-	-	-
80.0	190.0	-	-	-	-	-	-	5.3	-	-	-	-
80.0	200.0	-	-	-	-	-	-	0.0	-	0.0	-	-
83.0	40.0	0.0	-	0.0	-	-	5.0	0.0	-	0.0	-	-
83.0	43.0	0.0	-	0.0	-	-	0.0	0.0	-	14.9	-	-
83.0	51.0	0.0	-	3.0	-	-	0.0	0.0	-	0.0	-	-
83.0	65.0	0.0	-	3.0	-	-	0.0	0.0	-	0.0	-	-
87.0	35.0	0.0	-	3.2	-	-	0.0	0.0	-	0.0	-	-
87.0	40.0	0.0	-	0.0	-	-	2.9	0.0	-	0.0	-	-
87.0	50.0	0.0	-	2.9	-	-	0.0	0.0	-	0.0	-	-
87.0	55.0	0.0	-	0.0	-	-	0.0	0.0	-	2.7	-	-
87.0	90.0	0.0	-	0.0	-	-	0.0	0.0	-	2.5	-	-
90.0	28.0	0.0	-	0.0	-	-	0.0	16.4	-	-	0.0	-
90.0	30.0	-	-	-	-	-	-	14.7	-	-	0.0	-
90.0	37.0	-	-	0.0	-	-	-	11.8	-	-	-	-
90.0	40.0	-	-	-	-	-	-	0.0	-	2.8	-	-
90.0	70.0	-	-	3.0	-	-	-	0.0	-	0.0	-	-
90.0	140.0	-	-	2.6	-	-	-	2.5	-	5.2	-	-
90.0	170.0	-	-	-	-	-	-	4.9	-	-	-	-
90.0	180.0	-	-	-	-	-	-	4.8	-	0.0	-	-
90.0	200.0	5.7	-	0.0	-	-	-	-	-	0.0	-	-
93.0	90.0	-	-	2.8	-	-	0.0	-	-	0.0	-	-
93.0	100.0	2.7	-	2.2	-	-	0.0	-	-	0.0	-	-
97.0	30.0	35.4	-	0.0	-	-	16.9	-	-	8.0	-	-
97.0	32.0	17.0	-	0.0	-	-	2.7	-	-	0.0	-	-
97.0	50.0	0.0	-	0.0	-	-	3.2	-	-	0.0	-	-
97.0	90.0	0.0	-	3.0	-	-	7.8	-	-	0.0	0.0	-
100.0	30.0	-	-	0.0	-	-	2.8	-	-	-	0.0	-
100.0	35.0	0.0	-	0.0	-	-	3.4	-	-	-	0.0	-
100.0	40.0	0.0	-	0.0	-	-	4.7	-	-	-	0.0	-
100.0	55.0	0.0	-	2.8	-	-	0.0	-	-	-	0.0	-
100.0	60.0	0.0	-	0.0	-	-	7.0	-	-	-	0.0	-
100.0	65.0	0.0	-	0.0	-	-	7.1	-	-	-	0.0	-
100.0	70.0	0.0	-	0.0	-	-	12.8	-	-	-	0.0	-
100.0	80.0	5.3	-	0.0	-	-	-	-	-	-	0.0	-
100.0	120.0	-	-	0.0	-	-	-	-	-	-	0.0	-
100.0	160.0	-	-	5.3	-	-	-	-	-	-	-	-
103.0	30.0	1.7	-	0.0	-	-	8.8	-	-	0.0	-	-
103.0	35.0	0.0	-	3.0	-	-	0.0	-	-	0.0	-	-
103.0	50.0	0.0	-	0.0	-	-	2.7	-	-	0.0	-	-
103.0	65.0	0.0	-	0.0	-	-	0.0	-	-	2.8	-	-
103.0	80.0	0.0	-	0.0	-	-	2.0	-	-	0.0	-	-
107.0	32.0	0.0	-	-	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

## Unidentified fish larva (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	65.0	0.0	-	0.0	-	-	7.4	-	-	0.0	-	-
110.0	32.0	-	-	0.0	-	-	2.3	-	-	-	0.0	-
110.0	50.0	0.0	-	0.0	-	-	3.0	-	-	-	0.0	-
110.0	70.0	0.0	-	2.7	-	-	7.3	-	-	-	0.0	-
110.0	80.0	0.0	-	0.0	-	-	2.6	-	-	-	0.0	-
110.0	90.0	0.0	-	0.0	-	-	0.0	-	-	-	2.9	-
110.0	120.0	3.4	-	0.0	-	-	-	-	-	-	0.0	-
110.0	160.0	-	-	2.7	-	-	-	-	-	-	-	-
113.0	30.0	0.0	-	0.0	-	-	2.1	-	-	0.0	-	-
113.0	55.0	0.0	-	0.0	-	-	0.0	-	-	2.7	-	-
113.0	90.0	0.0	-	2.9	-	-	0.0	-	-	2.7	-	-
117.0	26.0	2.1	-	0.0	-	-	0.0	-	-	12.2	-	-
117.0	35.0	0.0	-	0.0	-	-	7.5	-	-	0.0	-	-
117.0	40.0	2.9	-	0.0	-	-	7.3	-	-	0.0	-	-
117.0	45.0	2.9	-	0.0	-	-	0.0	-	-	0.0	-	-
117.0	70.0	0.0	-	0.0	-	-	5.0	-	-	0.0	-	-
117.0	80.0	0.0	-	2.3	-	-	5.4	-	-	0.0	-	-
117.0	90.0	0.0	-	0.0	-	-	4.8	-	-	0.0	-	-
118.0	39.0	0.0	-	0.0	-	-	5.4	-	-	0.0	-	-
119.0	33.0	2.7	-	-	0.0	-	60.0	-	-	0.0	0.0	-
120.0	25.0	0.0	-	0.0	-	-	14.7	-	-	0.0	-	-
120.0	30.0	5.4	-	0.0	-	-	9.6	-	-	0.0	-	-
120.0	35.0	5.2	-	0.0	-	-	41.8	-	-	10.4	-	-
120.0	40.0	0.0	-	0.0	-	-	13.2	-	-	1.9	-	-
120.0	45.0	0.0	-	0.0	-	-	28.9	-	-	-	2.6	-
120.0	50.0	2.7	-	0.0	-	-	0.0	-	-	-	0.0	-
120.0	60.0	0.0	-	0.0	-	-	2.4	-	-	-	0.0	-
120.0	65.0	0.0	-	0.0	-	-	5.1	-	-	-	0.0	-
120.0	70.0	0.0	-	0.0	-	-	2.5	-	-	-	0.0	-
120.0	80.0	0.0	-	0.0	-	-	2.5	-	-	-	0.0	-
120.0	100.0	0.0	-	2.8	-	-	-	-	-	-	0.0	-
120.0	120.0	0.0	-	5.5	-	-	-	-	-	-	0.0	-
123.0	37.0	14.1	-	0.0	-	-	19.4	-	-	11.1	-	-
123.0	42.0	0.0	-	0.0	-	-	12.9	-	-	0.0	-	-
123.0	60.0	0.0	-	0.0	-	-	2.4	-	-	0.0	-	-
123.0	70.0	0.0	-	0.0	-	-	2.5	-	-	0.0	-	-
123.0	80.0	0.0	-	0.0	-	-	2.6	-	-	0.0	-	-
127.0	34.0	0.0	-	2.7	-	-	25.1	-	-	0.0	-	-
127.0	40.0	0.0	-	0.0	-	-	12.4	-	-	0.0	-	-
127.0	45.0	0.0	-	0.0	-	-	7.7	-	-	0.0	-	-
127.0	50.0	0.0	-	0.0	-	-	35.1	-	-	0.0	-	-
127.0	55.0	0.0	-	0.0	-	-	11.9	-	-	0.0	-	-
127.0	70.0	0.0	-	0.0	-	-	5.1	-	-	0.0	-	-
127.0	80.0	0.0	-	5.9	-	-	0.0	-	-	0.0	-	-
130.0	30.0	0.0	-	2.5	-	-	2.5	-	-	-	2.9	-
130.0	40.0	0.0	-	8.5	-	-	0.0	-	-	-	0.0	-



TABLE 4. (cont.)

Unidentified fish larva (cont.)											
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
130.0	50.0	0.0	-	3.0	-	-	0.0	-	-	-	0.0
130.0	80.0	0.0	-	0.0	-	-	0.0	-	-	-	5.3
130.0	90.0	0.0	-	0.0	-	-	0.0	-	-	-	2.6
133.0	25.0	2.1	-	0.0	-	-	-	-	-	0.0	-
133.0	35.0	0.0	-	2.7	-	-	-	-	-	3.5	-
133.0	70.0	2.8	-	0.0	-	-	-	-	-	0.0	-
137.0	23.0	1.5	-	0.0	-	-	-	-	-	-	3.1
137.0	30.0	37.9	-	0.0	-	-	-	-	-	-	0.0
137.0	45.0	10.8	-	0.0	-	-	-	-	-	-	0.0
137.0	50.0	0.0	-	2.8	-	-	-	-	-	-	3.0
140.0	30.0	10.3	-	5.0	-	-	-	-	-	-	2.7
140.0	45.0	2.5	-	2.6	-	-	-	-	-	-	0.0

TABLE 5. Summary of pooled occurrences of all larval fish taxa taken on CalCOFI surveys from 1961 to 1969. Taxa are listed in the same order as Table 4.

NAME	1961	1962	1963	1964	1965	1966	1967	1968	1969
Anguilliformes	7	8	20	8	24	17	5	3	13
<i>Etrumeus acuminatus</i>	4	7	36	37	35	26	7	1	9
<i>Opisthonema</i> spp.					2	3			
<i>Sardinops sagax</i>	53	58	99	88	104	143	31	10	79
<i>Engraulis mordax</i>	408	454	567	707	618	987	150	188	880
<i>Argentina sialis</i>	18	49	33	37	49	93	21	18	98
<i>Microstoma microstoma</i>	12	19	11	31	17	48	9	19	73
<i>Nansenia candida</i>	9	13	5	7	9	39	6	12	32
<i>Nansenia crassa</i>	29	15	30	33	22	48	8	5	40
<i>Nansenia</i> spp.	18	1	54	1	7	18	6	35	215
<i>Bathylagus milleri</i>			2	3	1	1		1	33
<i>Bathylagus ochotensis</i>	57	66	98	196	127	260	28	106	359
<i>Bathylagus pacificus</i>	5	7	8	38	3	26		15	80
<i>Bathylagus wesethi</i>	149	168	160	235	220	461	99	90	328
<i>Leuoglossus stilbius</i>	202	225	236	360	300	449	43	116	498
<i>Dolichopteryx</i> spp.									1
<i>Macropinna microstoma</i>	1								
Osmeridae			2						1
Stomiiformes	12	4	3	6	1	6	9	1	4
Gonostomatidae	2	5	12	8	18	8		4	126
<i>Cyclothone</i> spp.	214	277	241	247	265	593	80	65	346
<i>Diplophos taenia</i>	5	5	7		3	11	1	1	7
<i>Ichthyococcus</i> spp.	4	11	11	13	7	35	5	2	34
<i>Vinciguerrria lucetia</i>	342	371	383	369	436	828	121	82	479
<i>Vinciguerrria poweriae</i>	3	7	3	4	3	6			1
<i>Woodsia nonsuchae</i>			1						
Sternoptychidae	54	71	45	79	59	250	28	48	469
Astronesthidae		2							1
<i>Chauliodus macouni</i>	28	28	31	68	57	171	9	46	189
<i>Idiacanthus antrostomus</i>	48	43	26	32	33	72	15	22	114
<i>Aristostomias scintillans</i>	9	10	9	6	9	12	2		11
<i>Bathophilus</i> spp.	5	10	4	3	4	5	2	1	2
<i>Eustomias</i> spp.	1	1		1	1			1	
<i>Photonectes</i> spp.	7	3	2	2	6	4			
<i>Tactostoma macropus</i>	7	4		4	2	16	3		4
<i>Stomias atriventer</i>	58	76	98	81	100	326	24	46	214
Evermannellidae	1	3	1	1	1				
Paralepididae			5	10	3			3	6
<i>Lestidiops ringens</i>	50	80	58	63	67	232	36	52	231
<i>Notolepis risso</i>	9	12	9	7	9	12	2	8	18
<i>Paralepis atlantica</i>					1				
<i>Stemonosudis macrura</i>		6		2	6	5		1	1
<i>Sudis atrox</i>	2	4		2	4				
<i>Aulopus</i> spp.						1			
<i>Scopelosaurus</i> spp.	16	10	8	16	19	21	6	3	36
Scopelarchidae	67	60	50	21	33	114	29	13	93

TABLE 5. (cont.)

NAME	1961	1962	1963	1964	1965	1966	1967	1968	1969
Myctophidae									
<i>Ceratoscopelus townsendi</i>	165	151	179	220	222	346	33	79	329
<i>Diaphus</i> spp.	149	157	128	146	156	302	37	23	153
<i>Lampadena urophaos</i>	77	56	46	101	80	187	46	34	110
<i>Lampanyctus</i> spp.	53	45	50	25	32	62	10	1	23
<i>Lampanyctus regalis</i>	148	139	199	155	183	401	67	65	550
<i>Lampanyctus ritteri</i>	13	12	2	20	9	46	12	11	19
<i>Lampanyctus valdiviae</i>	154	204	120	189	234	523	43	72	155
<i>Notolynchus valdiviae</i>	29	13	22	16	21	22	7	1	10
<i>Notoscopelus resplendens</i>	59	41	50	39	44	54	11	3	29
<i>parvilux ingens</i>	-	-	-	-	-	-	-	-	1
<i>Stenobrachius leucopsarus</i>	177	179	186	342	263	420	31	127	390
<i>Triphoturus mexicanus</i>	407	422	451	448	494	990	142	92	556
<i>Triphoturus nigrescens</i>	4	-	-	-	1	-	-	-	-
<i>Benthosema pterota</i>	-	-	-	-	-	3	-	-	-
<i>Centrobranchus</i> spp.	2	10	-	2	2	-	1	-	2
<i>Diogenichthys</i> spp.	54	62	88	61	11	165	16	13	79
<i>Diogenichthys atlanticus</i>	102	155	92	111	116	171	38	46	210
<i>Diogenichthys laternatus</i>	94	127	161	163	249	361	63	32	210
<i>Electrona rissoi</i>	3	5	-	3	2	3	-	-	7
<i>Gonichthys tenuiculus</i>	20	24	29	46	81	146	16	12	48
<i>Hygophum</i> spp.	4	3	29	6	11	4	-	-	13
<i>Hygophum atratum</i>	27	38	41	44	103	178	21	6	81
<i>Hygophum reinhardtii</i>	39	58	27	20	27	9	7	-	10
<i>Loweina rara</i>	8	4	5	4	8	6	1	-	11
<i>Myctophum nitidulum</i>	46	42	31	32	19	58	11	8	59
<i>Protomyctophum crockeri</i>	247	252	225	292	261	671	109	139	717
<i>Protomyctophum thompsoni</i>	-	-	-	-	-	-	-	-	9
<i>Symbolophorus californiensis</i>	82	140	78	116	111	291	38	61	157
<i>Tarletonbeania crenularis</i>	160	115	111	140	132	208	10	73	277
<i>Synodus</i> spp.	19	23	41	35	42	121	23	-	54
<i>Bregmaceros</i> spp.	-	-	-	-	-	2	-	-	-
<i>Microgadus proximus</i>	-	-	-	3	-	2	-	-	-
<i>Merluccius productus</i>	152	228	229	290	290	398	25	95	361
<i>Physiculus</i> spp.	-	1	1	1	3	2	1	-	2
Macrouridae	4	6	6	5	3	5	2	3	14
Ophidiiformes	16	16	35	49	37	69	10	16	45
<i>Brosomphycis marginata</i>	-	2	3	3	7	17	5	8	16
Carapidae	-	1	-	1	-	-	-	-	-
<i>Chilara taylori</i>	12	31	15	11	29	55	15	-	28
<i>Ophidion scrippsae</i>	2	10	61	19	40	67	-	-	34
<i>Porichthys</i> spp.	1	-	1	1	-	43	1	-	2
Ceratioidei	15	26	17	7	18	12	-	-	30
Gobiesocidae	3	-	5	8	9	12	-	-	1
Exocoetidae	2	-	1	3	2	10	-	2	5
Hemiramphidae	-	-	-	2	1	-	-	-	-
<i>Cololabis saira</i>	11	6	13	22	9	31	3	10	32
Atherinidae	-	-	9	23	8	11	2	2	5
Trachipteridae	27	27	20	22	19	75	6	9	80
Eutaeniophoridae	-	-	-	-	-	-	-	-	5

TABLE 5. (cont.)

NAME	1961	1962	1963	1964	1965	1966	1967	1968	1969
<i>Melamphaes</i> spp.	117	106	134	114	151	340	68	84	333
<i>Poromitra</i> spp.	13	18	28	28	32	51	6	14	27
<i>Scopeloberyx robustus</i>	4	2	2	-	7	-	-	-	2
<i>Scopelogadus bispinosus</i>	18	34	10	31	13	60	4	5	17
<i>Macroramphosus gracilis</i>	3	6	6	3	7	6	7	-	11
<i>Syngnathus</i> spp.	6	5	8	12	12	15	6	3	10
Agonidae	3	6	16	24	22	20	5	4	9
<i>Anoplopoma fimbria</i>	-	-	-	1	-	-	-	-	-
Cottidae	11	21	33	45	37	43	5	12	40
<i>Scorpaenichthys marmoratus</i>	3	3	7	13	20	15	-	5	24
Cyclopteridae	8	2	12	14	16	14	4	4	17
Hexagrammidae	-	1	-	2	1	1	-	1	6
<i>Ophiodon elongatus</i>	-	-	-	-	-	1	-	1	1
<i>Oxylebius pictus</i>	6	3	7	27	13	7	-	5	20
<i>Zaniolepis</i> spp.	2	9	12	11	7	26	7	3	19
Scorpaenidae	-	1	2	16	-	1	1	-	-
<i>Scorpaena</i> spp.	11	11	17	16	25	62	8	3	12
<i>Sebastes</i> spp.	311	273	289	492	387	698	81	207	705
<i>Sebastolobus</i> spp.	8	2	17	20	20	87	4	14	47
<i>Prionotus</i> spp.	10	9	40	15	30	25	-	-	19
Acanthuridae	-	-	1	-	-	-	-	-	-
Blennioidei	1	-	14	6	4	-	3	-	4
<i>Hypsoblennius</i> spp.	11	14	68	69	73	77	19	6	61
Clinidae	12	21	31	44	64	51	9	10	51
Gobiidae	31	41	87	80	104	198	36	19	138
<i>Icosteus acnigmaticus</i>	1	1	1	1	-	3	-	-	1
Labridae	-	2	9	-	7	-	2	3	-
<i>Halichoeres</i> spp.	12	12	40	18	36	50	4	1	28
<i>Oxyjulis californica</i>	23	22	34	15	31	97	23	15	58
<i>Semicossyphus pulcher</i>	6	10	21	7	27	28	4	-	8
Pomacentridae	-	-	10	4	8	5	-	-	-
<i>Chromis punctipinnis</i>	3	21	42	13	39	105	5	1	54
<i>Hypsypops rubicundus</i>	-	-	1	-	8	1	-	-	-
<i>Mugil</i> spp.	-	-	-	1	1	5	1	-	-
Apogonidae	-	-	-	-	-	1	-	-	-
<i>Howella brodiei</i>	16	7	-	5	4	3	1	1	4
<i>Brama</i> spp.	21	17	17	7	9	21	1	-	12
Carangidae	-	1	20	14	25	13	2	-	3
<i>Seriola lalandi</i>	5	12	15	7	14	30	5	4	9
<i>Trachurus symmetricus</i>	144	208	199	206	214	503	76	85	248
<i>Caristius macropus</i>	-	-	-	-	1	1	-	-	-
<i>Coryphaena hippurus</i>	-	7	2	1	10	5	1	-	1
<i>Chaetodipterus zonatus</i>	-	-	1	-	-	-	-	-	-
Gerreidae	-	2	15	10	14	12	2	-	4
Haemulidae	-	1	13	16	11	17	-	-	4
<i>Girella nigricans</i>	5	1	11	3	3	4	3	7	7
<i>Medialuna californiensis</i>	4	11	13	4	5	22	6	3	12
<i>Caulolatilus princeps</i>	4	3	2	3	7	5	1	-	2
Mullidae	-	-	2	-	-	-	-	-	-

TABLE 5. (cont.)

NAME	1961	1962	1963	1964	1965	1966	1967	1968	1969
Sciaenidae	28	42	85	135	147	157	32	38	195
Serranidae	10	6	68	38	59	91	23	2	72
Sparidae	-	-	1	-	-	-	-	-	-
Polynemidae	7	15	6	5	8	7	-	-	1
Gempylidae	3	-	3	2	4	-	8	2	2
Scombridae	-	-	2	-	8	4	-	-	2
Auxis spp.	7	3	10	8	9	29	1	-	30
<i>Sarda chiliensis</i>	26	32	57	39	34	68	14	-	24
<i>Scomber japonicus</i>	1	-	1	1	5	3	-	-	20
<i>Scomberomorus</i> spp.	10	23	27	17	27	74	10	-	-
Trichiuridae	6	6	22	10	25	31	7	4	15
<i>Sphyræna argentea</i>	38	39	52	78	53	131	18	48	202
<i>Icichthys lockingtoni</i>	-	-	1	1	1	2	-	-	1
Nomeidae	2	19	19	18	45	52	22	11	45
<i>Peprilus simillimus</i>	45	76	98	46	31	74	36	5	48
<i>Tetragonurus cuvieri</i>	25	22	39	13	40	60	6	10	41
Chiasmodontidae	2	-	13	7	4	-	1	1	7
Pleuronectiformes	-	-	2	-	-	-	-	-	-
<i>Bothus</i> spp.	186	221	281	243	342	590	108	101	611
<i>Citharichthys</i> spp.	50	97	65	73	65	171	19	42	269
<i>Citharichthys stigmæus</i>	24	15	44	42	44	83	12	5	52
<i>Hippoglossina stomata</i>	21	37	57	96	107	81	13	13	60
<i>Paralichthys californicus</i>	-	-	3	-	1	3	-	-	-
<i>Syacium ovale</i>	1	9	15	18	8	30	4	-	22
<i>Xystreurus liolepis</i>	2	-	9	18	4	36	-	14	15
<i>Glyptocephalus zachirus</i>	1	-	4	5	10	3	-	-	6
<i>Hypsopsetta guttulata</i>	1	1	-	1	2	3	2	2	1
<i>Lepidopsetta bilineata</i>	32	31	33	46	33	72	4	20	65
<i>Lyopsetta exilis</i>	2	-	11	13	16	52	13	17	56
<i>Microstomus pacificus</i>	14	32	41	41	81	80	6	21	80
<i>Parophrys vetulus</i>	-	-	-	-	-	3	-	-	-
<i>Platichthys stellatus</i>	4	3	10	12	1	-	10	3	1
<i>Pleuronichthys</i> spp.	2	2	6	9	5	11	1	3	15
<i>Pleuronichthys coenosus</i>	1	4	-	1	4	11	-	2	11
<i>Pleuronichthys decurrens</i>	5	3	12	12	9	8	2	1	7
<i>Pleuronichthys ritteri</i>	10	47	56	74	88	81	24	18	66
<i>Pleuronichthys verticalis</i>	1	1	5	12	9	10	-	4	14
<i>Psettichthys melanostictus</i>	18	41	73	48	75	138	10	-	71
<i>Symphurus</i> spp.	-	-	-	-	1	-	-	-	-
Soleidae	-	-	-	-	3	-	-	-	-
Tetraodontidae	184	223	274	311	319	542	84	74	458
Disintegrated fish larva	147	147	256	217	263	485	60	72	422
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